

Acer Aspire 4252/4552/4552G

Service Guide

Service guide files and updates are available
on the ACER/CSD web; for more information,
please refer to <http://csd.acer.com.tw>

Revision History

Please refer to the table below for the updates made on this service guides.

| Date | Chapter | Updates |
|------|---------|---------|
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Conventions

The following conventions are used in this manual:

| | |
|------------------------|--|
| SCREEN MESSAGES | Denotes actual messages that appear on screen. |
| NOTE | Gives bits and pieces of additional information related to the current topic. |
| WARNING | Alerts you to any damage that might result from doing or not doing specific actions. |
| CAUTION | Gives precautionary measures to avoid possible hardware or software problems. |
| IMPORTANT | Reminds you to do specific actions relevant to the accomplishment of procedures. |

 **NOTE: This symbol where placed in the Service Guide designates a component that should be recycled according to the local regulations.**

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the **BASIC CONFIGURATION** decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office **MAY** have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These **LOCALIZED FEATURES** will **NOT** be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note **WHEN ORDERING FRU PARTS**, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For **ACER-AUTHORIZED SERVICE PROVIDERS**, your Acer office may have a **DIFFERENT** part number code to those given in the FRU list of this printed Service Guide. You **MUST** use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Features

Below is a brief summary of the computer's many features:

NOTE: Items denoted with an (*) are only available for selected models.

Operating system

- Genuine Windows® 7 Home Premium 64-bit
- Genuine Windows® 7 Home Basic 64-bit

CPU and chipset

Aspire 4552 and 4552G

- **AMD Phenom™ II** quad-core mobile processor **N950** (2 MB L2 cache, 2.10 GHz, DDR3 1333 MHz, 35 W)
- **AMD Phenom™ II** triple-core mobile processor **N850** (1.5 MB L2 cache, 2.20 GHz, DDR3 1333 MHz, 35 W)
- **AMD Phenom™ II** dual-core mobile processor **N620/N640** (2 MB L2 cache, 2.80/2.90 GHz, DDR3 1333 MHz, 35 W)
- **AMD Turion™ II** dual-core mobile processor **P540** (2 MB L2 cache, 2.40 GHz, DDR3 1066 MHz, 25 W)
- **AMD Athlon™ II** dual-core processor **P320/P340** (1 MB L2 cache, 2.10/2.20 GHz, DDR3 1066 MHz, 25 W), **N350** (1 MB L2 cache, 2.40 GHz, DDR3 1066 MHz, 35 W)
- AMD M880G Chipset

Aspire 4252

- AMD V Series processor V140 (512 KB L2 cache, 2.30 GHz, DDR3 1066 MHz, 25 W)
- AMD M880G Chipset

System memory

- Dual-channel DDR3 SDRAM support:
 - Up to 4 GB of DDR3 system memory, upgradable to 8 GB using two soDIMM modules

Display

- 14" HD 1366 x 768 pixel resolution, high-brightness (200-nit) Acer CineCrystal™ LED-backlit TFT LCD
- Mercury free, environment friendly
- 16:9 aspect ratio

Graphics

Aspire 4252 and 2552

- ATI Radeon™ HD 4250 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 2 (UVD2), OpenGL® 2.0, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 4.1, Microsoft® DirectX® 10.1

Aspire 4552G

- ATI Mobility Radeon™ HD 5470 with up to 3579 MB of HyperMemory™ (512 MB of dedicated DDR3 VRAM, up to 3067 MB of shared system memory), supporting Unified Video Decoder (UVD), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11, OpenGL® 3.1, OpenCL™ 1.1
- Dual independent display support
- 16.7 million colors
- External resolution / refresh rate:
 - VGA port up to 2048 x 1536: 85 Hz
 - HDMI™ port up to 1920 x 1080: 60 Hz
- MPEG-2/DVD decoding
- VC-1 and H.264 (AVC) decoding
- HDMI™ (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Audio

- Built-in speaker
- High-definition audio support
- Built-in microphone
- MS-Sound compatible

Storage

- Hard disk drive
 - 160/250/320/500/640/750 GB or larger
- Multi-in-1 card reader, supporting:
 - Secure Digital™ (SD) Card and MultiMediaCard™ (MMC)

Webcam

- Acer Video Conference, featuring:
 - Acer Crystal Eye 1.3 MP webcam, 1280 x 1024 resolution

Wireless and networking

- WLAN:
 - Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™
 - Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™ 802.11b/g/n Wi-Fi CERTIFIED™
 - Supporting Acer SignalUp™ wireless technology
- WPAN:
 - Bluetooth® 3.0+HS
 - Bluetooth® 2.1+EDR
- LAN: Gigabit Ethernet, Wake-on-LAN ready

Privacy control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Dimensions and weight

- Dimensions
 - 341 (W) x 264.5 (D) x 26.7/33.5 (H) mm (13.43 x 10.41 x 1.05/1.32 inches)
- Weight
 - 2.5 kg (5.51 lbs.) with 6-cell battery pack

Power adapter and battery

- ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes

Power adapter

Aspire 4252 and 4552

- 3-pin 65 W AC adapter:
 - 108 (W) x 46 (D) x 29.5 (H) mm (4.25 x 1.81 x 1.16 inches)
 - 225 g (0.49 lbs.) with 180 cm DC cable

Aspire 4552G

- 3-pin 65 W AC adapter:
 - 133 (W) x 59 (D) x 31 (H) mm (5.23 x 2.32 x 1.22 inches)
 - 390 g (0.86 lbs.) with 180 cm DC cable

Battery

- 48 Wh 4400 mAh 6-cell Li-ion standard battery pack
- Battery life: 3 hours
- ENERGY STAR®

Aspire 4552G Only

- Acer QuicCharge™ technology:
 - 80% charge in 1 hour
 - 2-hour rapid charge system-off

Input and control

- Keyboard
 - 86-/87-/91-key Acer FineTip keyboard with international language support
- Touchpad
 - Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip
- Media keys
 - Media control keys (printed on keyboard): play/pause, stop, previous, next, volume up, volume down

I/O interface

- 2-in-1 card reader (SD™, MMC)
- Three USB 2.0 ports
- HDMI™ port with HDCP support
- External display (VGA) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Software

- Productivity
 - Acer Backup Manager
 - Acer ePower Management
 - Acer eRecovery Management
 - Adobe® Flash® Player 10.1
 - Adobe® Reader® 9.1
 - eSobi™
 - Microsoft® Office 2010 preloaded (purchase a product key to activate)
 - Microsoft® Office Starter 2010
 - Norton™ Online Backup
- Security
 - McAfee® Internet Security Suite Trial
 - MyWinLocker®
- Multimedia
 - Cyberlink® PowerDVD™
 - NTI Media Maker™
- Gaming
 - Oberon GameZone
 - WildTangent®
- Communication and ISP

- Acer Crystal Eye
- Microsoft® Silverlight™
- Skype™
- Windows Live™ Essentials — Wave 3.2 (Mail, Photo Gallery, Live™ Messenger, Movie Maker, Writer)
- Web links and utilities
 - Acer Accessory Store
 - Acer Identity Card
 - Acer Registration
 - Acer Updater
 - eBay® shortcut 2009
 - Netflix shortcut

Optional Items

- 1/2/4 GB DDR3 soDIMM module
- 6-cell Li-ion battery pack
- 3-pin 90 W AC adapter

Warranty

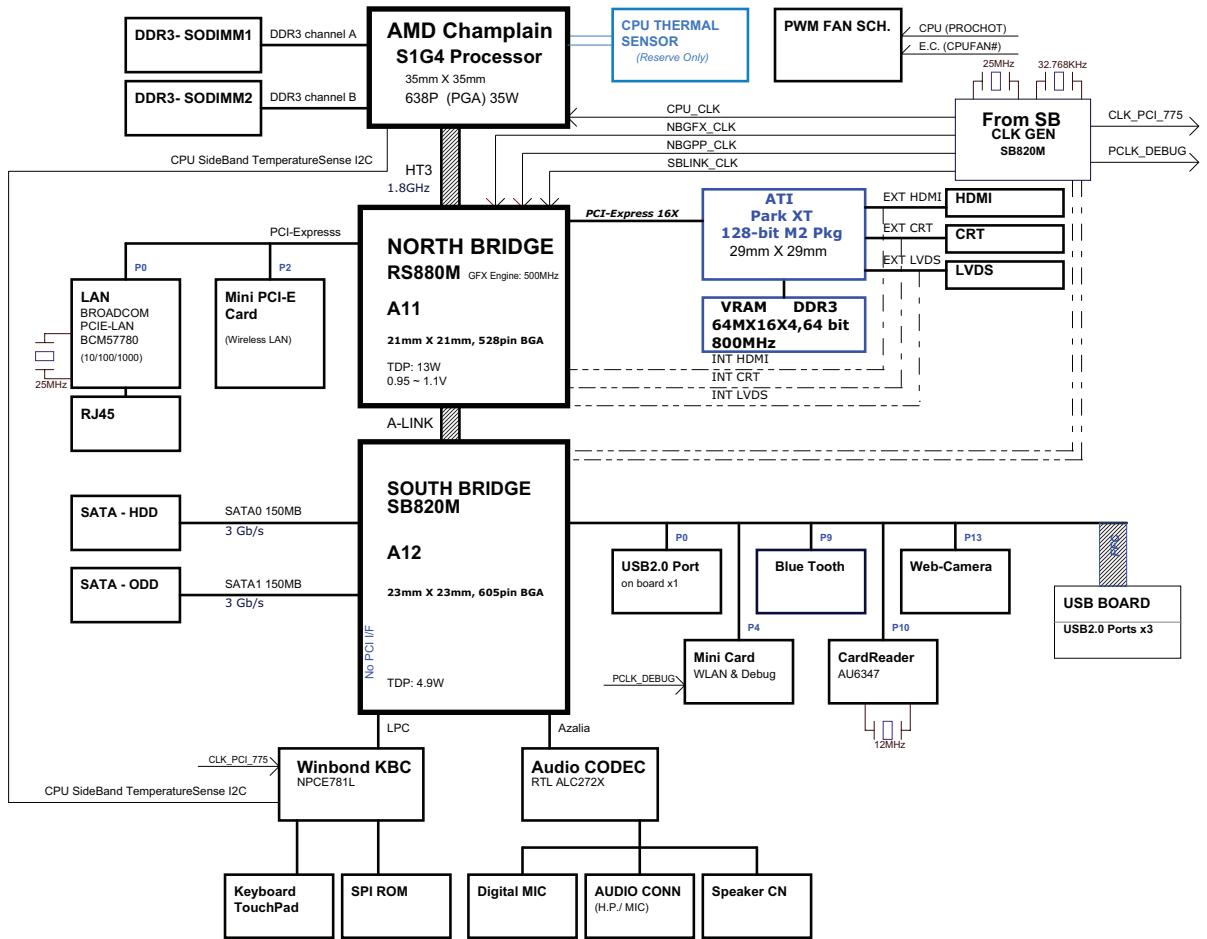
- One-year International Travelers Warranty (ITW)

Environment

- Temperature:
 - Operating: 41 °F to 95 °F (5 °C to 35 °C)
 - Non-operating: -4 °F to -149 °F (20 °C to 65 °C)
- Humidity (non-condensing):
 - Operating: 20% to 80%
 - Non-operating: 20% to 80%

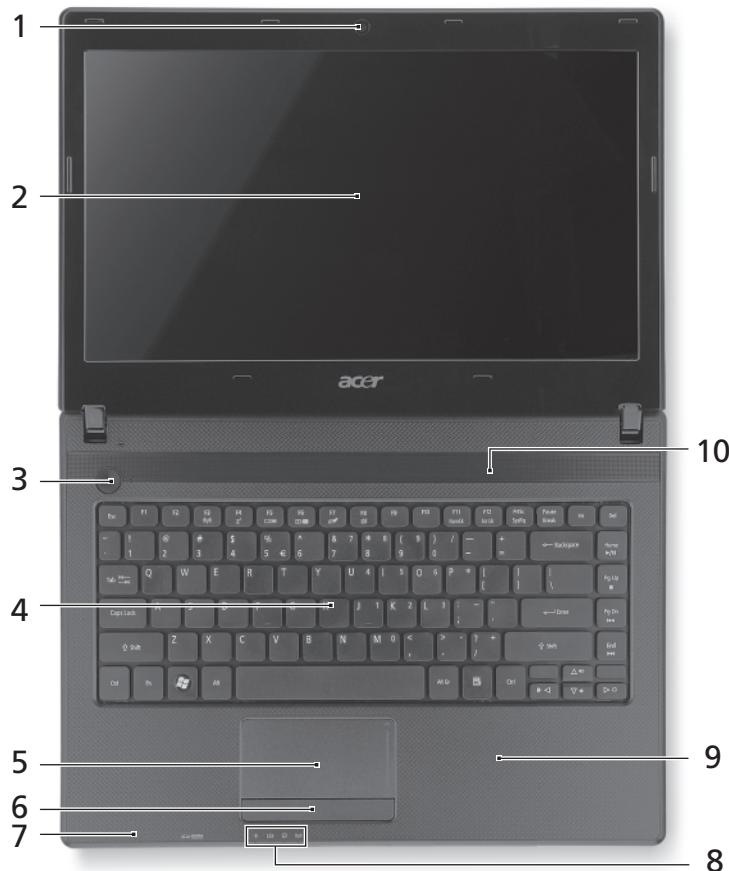
NOTE: The specifications listed above are for reference only. The exact configuration of the PC depends on the model purchased.

System Block Diagram



Your Acer Notebook tour

Top View



| # | Icon | Item | Description |
|---|------|---------------------------------|---|
| 1 | | Acer Crystal Eye webcam | Web camera for video communication. (only for certain models) |
| 2 | | Display screen | Also called Liquid-Crystal Display (LCD), displays computer output (configuration may vary by model). |
| 3 | | Power button | Turns the computer on and off. |
| 4 | | Keyboard | For entering data into your computer |
| 5 | | Touchpad | Touch-sensitive pointing device which functions like a computer mouse. |
| 6 | | Click buttons (left, and right) | The left and right buttons function like the left and right mouse buttons. |
| 7 | | Microphone | Internal microphone for sound recording. |

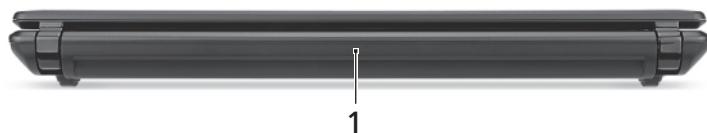
| # | Icon | Item | Description |
|----|------|-------------------------|---|
| 8 | | Power indicator | Indicates the computer's power status. |
| | | Battery indicator | Indicates the computer's battery status. 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows blue when in AC mode. |
| | | HDD indicator | Indicates when the hard disk drive is active. |
| | | Communication indicator | Indicates the computer's wireless connectivity device status. |
| 9 | | Palmrest | Comfortable support area for your hands when you use the computer. |
| 10 | | Speaker | Delivers audio output. |

Closed Front View



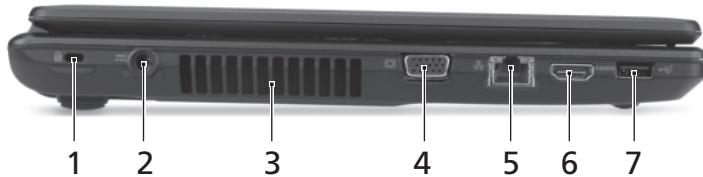
| No. | Icon | Item | Description |
|-----|------|---------------------------------|---|
| 1 | | Microphone jack | Accepts inputs from external microphones. |
| | | Headphone/speaker/line-out jack | Connects to audio line-out devices (e.g., speakers, headphones). |
| 2 | | 2-in-1 card reader | Accepts Secure Digital (SD), MultiMediaCard (MMC). Note: Push to remove/install the card. Only one card can operate at any given time. |

Rear view



| No. | Icon | Item | Description |
|-----|------|-------------|-------------------------------------|
| 1 | | Battery bay | Houses the computer's battery pack. |

Left View



| No. | Icon | Item | Description |
|-----|------|-----------------------------|---|
| 1 | | Kensington lock slot | Connects to a Kensington-compatible computer security lock. Note: Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available. |
| 2 | | DC-in jack | Connects to an AC adapter. |
| 3 | | Ventilation slots | Enable the computer to stay cool, even after prolonged use. |
| 4 | | External display (VGA) port | Connects to a display device (e.g., external monitor, LCD projector). |
| 5 | | Ethernet (RJ-45) port | Connects to an Ethernet 10/100/1000-based network. |
| 6 | | HDMI port | Supports high-definition digital video connections. |
| 7 | | USB 2.0 port | Connects to USB 2.0 devices (e.g., USB mouse, USB camera). |

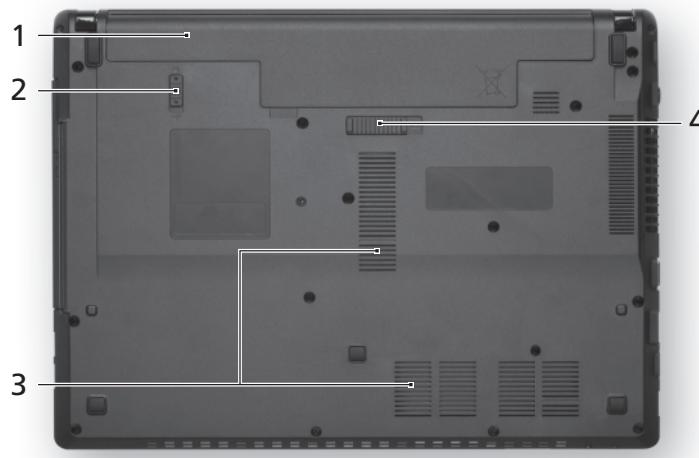
Right View



| No. | Icon | Item | Description |
|-----|------|-------------------------------|---|
| 1 | | USB 2.0 ports | Connect to USB 2.0 devices (e.g., USB mouse, USB camera). |
| 2 | | Optical drivez | Internal optical drive; accepts CDs or DVDs. |
| 3 | | Optical disk access indicator | Lights up when the optical drive is active. |
| 4 | | Optical drive eject button | Ejects the optical disk from the drive . |

| No. | Icon | Item | Description |
|-----|------|----------------------|---|
| 5 | | Emergency eject hole | Ejects the optical drive tray when the computer is turned off. Note: Insert a paper clip to the emergency eject hole to eject the optical drive tray when the computer is off. |

Base View



| No. | Icon | Item | Description |
|-----|------|-----------------------|---|
| 1 | | Battery bay | Houses the computer's battery pack. |
| 2 | | Battery lock | Locks the battery in position. |
| 3 | | Ventilation slots | Enable the computer to stay cool, even after prolonged use. |
| 4 | | Battery release latch | Releases the battery for removal. |

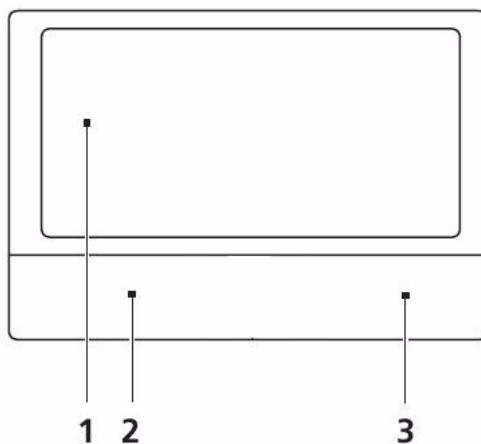
Indicators

The computer has several easy-to-read status indicators.

| Icon | Function | Description |
|---|-------------------------|--|
|  | Power | Indicates the computer's power status. |
|  | Battery | Indicates the computer's battery status. NOTE: 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows green when in AC mode. |
|  | HDD | Indicates when the hard disk drive is active. |
|  | Communication indicator | Indicates the computer's wireless connectivity device status. |

Touchpad Basics

The following items show you how to use the Touchpad:



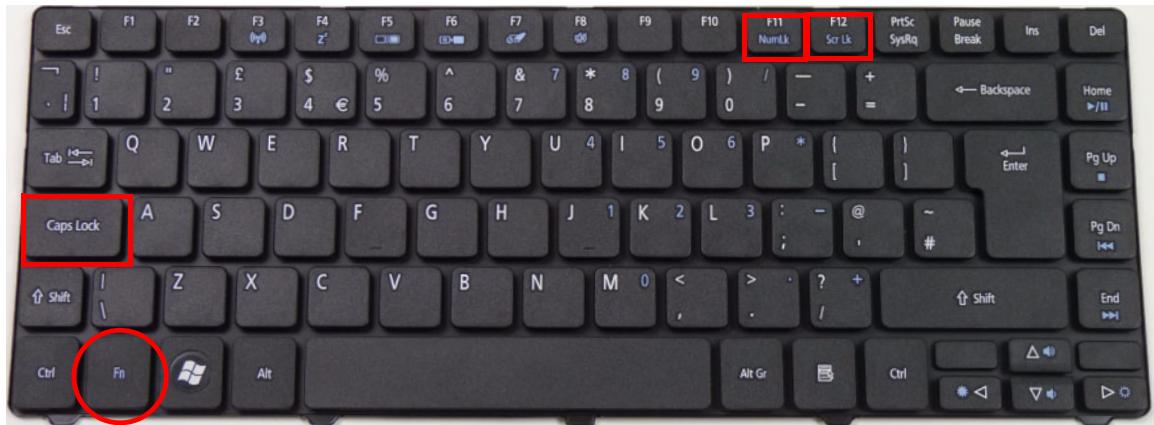
- Move your finger across the Touchpad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the Touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the Touchpad is the same as clicking the left button.

| Function | Left Button (2) | Right Button (3) | Main Touchpad (1) |
|---------------------|---|------------------|--|
| Execute | Quickly click twice. | | Tap twice (at the same speed as double-clicking a mouse button). |
| Select | Click once. | | Tap once. |
| Drag | Click and hold, then use finger on the Touchpad to drag the cursor. | | Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the Touchpad on the second tap and drag the cursor. |
| Access context menu | | Click once. | |

NOTE: When using the Touchpad, keep it - and your fingers - dry and clean. The Touchpad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the Touchpad's responsiveness.

Using the Keyboard

The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.



Lock Keys and embedded numeric keypad

The keyboard has two lock keys which you can toggle on and off.

| Lock key | Description |
|-----------------------------|---|
| Caps Lock | When Caps Lock is on, all alphabetic characters typed are in uppercase. |
| Num Lock <Fn> + <F11> | When Num Lock is on, the embedded keypad is in numeric mode. |
| Scroll Lock <Fn> + <F12> | When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications. |

Windows Keys

The keyboard has two keys that perform Windows-specific functions.

| Key | Description |
|---|---|
|  Windows key | <p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions:</p> <ul style="list-style-type: none">< >: Open or close the Start menu< > + <D>: Display the desktop< > + <E>: Open Windows Explore< > + <F>: Search for a file or folder< > + <G>: Cycle through Sidebar gadgets< > + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain)< > + <M>: Minimizes all windows< > + <R>: Open the Run dialog box< > + <T>: Cycle through programs on the taskbar< > + <U>: Open Ease of Access Center< > + <X>: Open Windows Mobility Center< > + <BREAK>: Display the System Properties dialog box< > + <SHIFT+M>: Restore minimized windows to the desktop< > + <TAB>: Cycle through programs on the taskbar< > + <SPACEBAR>: Bring all gadgets to the front and select Windows Sidebar<CTRL> + < > + <F>: Search for computers (if you are on a network)<CTRL> + < > + <TAB>: Use the arrow keys to cycle through programs on the taskbar <p>Note: Depending on your edition of Windows, some shortcuts may not function as described.</p> |

Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hot keys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



| Hotkey | Icon | Function | Description |
|----------------|------|-------------------|---|
| <Fn> + <F3> | 🔊 | Communication key | Enables / disables the computer's communication devices. (Communication devices may vary by configuration.) |
| <Fn> + <F4> | 💤 | Sleep | Puts the computer in Sleep mode. |
| <Fn> + <F5> | ▢ ▢ | Display toggle | Switches display output between the display screen, external monitor (if connected) and both. |
| <Fn> + <F6> | ✖️➡️ | Display Off | Turns the display screen backlight off to save power. Press any key to return. |
| <Fn> + <F7> | ✖️ | Touchpad toggle | Turns the internal Touchpad on and off. |
| <Fn> + <F8> | 🔇 | Speaker toggle | Turns the speakers on and off. |
| <Fn> + <△> | ☀️ | Brightness up | Increases the screen brightness. |
| <Fn> + <▽> | ☀️ | Brightness down | Decreases the screen brightness. |
| <Fn> + <△> | 🔊 | Volume up | Increases the sound volume. |
| <Fn> + <▽> | 🔊 | Volume down | Decreases the sound volume. |
| <Fn> + <Home> | ▶/⏸ | Play/Pause | Play or pause a selected media file. |
| <Fn> + <Pg Up> | ⏹ | Stop | Stop playing the selected media file. |
| <Fn> + <Pg Dn> | ⏮ | Previous | Return to the previous media file. |
| <Fn> + <End> | ⏭ | Next | Jump to the next media file. |

Hardware Specifications and Configurations

Processor

| Item | Specification |
|----------------|---|
| CPU | AMD Family 10h Champlain Processor S1g4 Package |
| Type | 35W CPU |
| CPU Package | 528-FCBGA package, 21mmx21mm - S1g3 |
| Power | 1.1V |
| On-die Cache | 1MB L2 cache |
| Front Side Bus | 667/800/1066 MHz |

Processor Specifications (Aspire 4552/5442G)

| Item | CPU Speed (Ghz) | Cores | Bus Speed | Mfg Tech | Cache Size | Package | Core Voltage | Acer P/N |
|--------|-----------------|-------|-----------|----------|------------|-------------------|--------------|--------------|
| AAP320 | 2.1 | 2 | 3600 MHz | 45 nm | 1M | 638-pin micro-PGA | 25W | KC.AP002.320 |
| APN830 | 2.1 | 3 | 3600 MHz | 45 nm | 1.5M | 638-pin micro-PGA | 35W | KC.PN002.830 |
| APN930 | 2.0 | 4 | 3600 MHz | 45 nm | 2M | 638-pin micro-PGA | 35W | KC.PN002.930 |
| AAN350 | 2.4 | 2 | 3200 MHz | 45 nm | 1M | 638-pin micro-PGA | 35W | KC.AN002.350 |
| AAP340 | 2.2 | 2 | 3200 MHz | 45 nm | 1M | 638-pin micro-PGA | 25W | KC.AP002.340 |
| APN850 | 2.2 | 3 | 3600 MHz | 45 nm | 1.5M | 638-pin micro-PGA | 35W | KC.PN002.850 |
| APN950 | 2.1 | 4 | 3600 MHz | 45 nm | 2M | 638-pin micro-PGA | 35W | KC.PN002.950 |
| APP840 | 1.9 | 3 | 3600 MHz | 45 nm | 1.5M | 638-pin micro-PGA | 25W | KC.PP002.840 |
| APP940 | 1.7 | 4 | 3600 MHz | 45 nm | 2M | 638-pin micro-PGA | 25W | KC.PP002.940 |
| ATP540 | 2.4 | 2 | 3600 MHz | 45 nm | 2M | 638-pin micro-PGA | 25W | KC.TP002.540 |

Processor Specifications (Aspire 4252)

| Item | CPU Speed (Ghz) | Cores | Bus Speed | Mfg Tech | Cache Size | Package | Core Voltage | Acer P/N |
|----------|-----------------|-------|-----------|----------|------------|-------------------|--------------|--------------|
| AMD V140 | 2.3 | 1 | 3200 MHz | 45 nm | 512K | 638-pin micro-PGA | 25W | KC.V0002.140 |

North Bridge Chipset

| Item | Specification |
|----------|---|
| Chipset | RS880M |
| Package | <ul style="list-style-type: none">Single chip solution in 55nm, 1.1V low power CMOS technology.528-FCBGA package, 21mmx21mm. |
| Features | <ul style="list-style-type: none">CPU HyperTransport™ InterfaceCaspian-series processors.ATI HyperMemoryPCI ExpressR InterfaceA-Link Express II InterfaceNorthbridge-Southbridge messaging functionalities2D Acceleration3D AccelerationMotion Video AccelerationMultiple DisplaySystem ClocksPC Design Guide Compliance |

Southbridge Chipset

| Item | Feature |
|----------|--|
| Chipset | SB820M |
| Package | SB820M 23 mm x 23 mm x 0.8 mm Pitch 605-FCBGA |
| Features | <ul style="list-style-type: none">Processor InterfaceA-Link Express II interface to NorthbridgesPCI ExpressR ControllerPCI Host Bus ControllerUSB ControllersSupports port disable with individual controlSMBus ControllerInterrupt ControllerDMA ControllerLPC host bus ControllerSATA ControllerIDE emulation modeAMD RAID SupportAHCI SupportHigh Definition AudioSupports up to 4 codecsGigabit Ethernet Media AccessController (GbE MAC)TimersReal Time Clock (RTC)Power ManagementConsumer IRHardware MonitoringIntegrated Clock Function |

CPU Fan True Value Table (CPU)

| Fan On (Celsius) | Fan Off (Celsius) | RPM |
|------------------|-------------------|----------|
| 45 | 42 | 2350 |
| 50 | 48 | 2800 |
| 58 | 56 | 3100 |
| 63 | 61 | 3500 |
| 82 | 80 | 3850 |
| 92 | 85 | max (5V) |

Throttling 50%: On= 95°C; OFF=90°C

OS shut down at 105°C; H/W shut down at 105°C

CPU Fan True Value Table (GPU)

| Fan On (Celsius) | Fan Off (Celsius) | RPM |
|------------------|-------------------|----------|
| 45 | 42 | 2350 |
| 50 | 48 | 2800 |
| 58 | 56 | 3100 |
| 63 | 61 | 3500 |
| 82 | 80 | 3850 |
| 92 | 85 | max (5V) |

Throttling 50%: On= 85°C; OFF=80°C

OS shut down at 90°C; H/W shut down at 90°C

System Memory

| Item | Specification |
|---------------------------------|--|
| Memory controller | RS880M |
| Memory size | 0MB (no on-board memory) |
| DIMM socket number | 2 sockets |
| Supports memory size per socket | 8 GB |
| Supports maximum memory size | 8GB maximum per one DIMM |
| Supports DIMM type | JEDEC 204-pin DDR3-800/1066 SODIMM for PC3-10600/ PC3-8500/ PC3-6400 |
| Supports DIMM speed | 1.87ns @ CL = 7 (DDR3-1066) 1.87ns @ CL = 8 (DDR3-1066) 2.5ns @ CL = 5 (DDR3-800) 2.5ns @ CL = 6 (DDR3-800) |
| Supports DIMM voltage | 1.5V +/- 0.075V |
| Supports DIMM package | 204-pin SODIMM, 67.75"x 30.15"x 3.8"(Max) |
| Memory module combinations | You can install memory modules in any combinations as long as they match the above specifications. |

System Board Major Chips

| Item | Specification |
|----------------------|---------------|
| Northbridge | RS880M |
| Southbridge | SB820M |
| VGA | AMD Park XT |
| LAN | BCM57780 |
| USB 2.0 | SB820M |
| Super I/O controller | SB820M |
| Bluetooth | SB820M |
| Wireless | SB820M |
| PCMCIA | N/A |
| Audio codec | ALC271 |
| Card reader | AU6437 |

BIOS

| Item | Specification |
|---------------|--|
| BIOS vendor | Phoenix |
| BIOS Version | v4.0 |
| BIOS ROM type | W25X16A |
| BIOS ROM size | 4MB |
| Features | <ul style="list-style-type: none">Flash ROM 4MBSupport ISIPPSupport Acer UISupport multi-bootSuspend to RAM (S3)/Disk (S4)Various hot-keys for system controlSupport SMBIOS 2.3, PCI2.2.Refer to Acer BIOS specification.DMI utility for BIOS serial number configurable/asset tagSupport PXESupport Y2K solutionSupport WinFlashWake on LAN from S3Wake on LAN from S4 in AC modeSystem information |

Memory Combinations

| Slot 1 | Slot 2 | Total Memory |
|--------|--------|--------------|
| 0MB | 1024MB | 1024MB |
| 0MB | 2048MB | 2048MB |
| 0MB | 4096MB | 4096MB |
| 1024MB | 0MB | 1024MB |
| 1024MB | 512MB | 1536MB |
| 1024MB | 1024MB | 2048MB |
| 1024MB | 2048MB | 3072MB |
| 2048MB | 0MB | 2048MB |
| 2048MB | 512MB | 2560MB |
| 2048MB | 1024MB | 3072MB |
| 2048MB | 2048MB | 4096MB |
| 2048MB | 4096MB | 6144MB |
| 4096MB | 4096MB | 8192MB |

Wireless Module 802.11b/g/Draft-N

| Item | Specification | | | |
|---------------------|------------------|----------------|------------------|------------------|
| Manufacturer | Foxconn | | | |
| Model | 43225 | HB95 | HB97 | HB97 |
| Supported Standards | IEEE 802.11b/g/n | IEEE 802.11b/g | IEEE 802.11b/11g | IEEE 802.11b/g/n |

LAN Interface

| Item | Specification |
|-----------|---------------------------|
| Part Name | BCM57780 |
| Package | 64pin QFN |
| Features | Supports 10/100/1000 Mb/s |
| Interface | PCI-Express |

3G Module (Not available with this model)

| Item | Specification |
|--------------------|---------------|
| Manufacturer | |
| Model | |
| Card Type | |
| Throughput | |
| Supported Services | |

Speaker

| Item | Specification |
|-----------------------------|-------------------------------|
| Vendor | Vansonic Enterprise Co., Ltd. |
| Module No. | PB2814KN04-9LB |
| Power Rating | Normal 1 W, Maximum 1.5 W |
| Output Sound Pressure Level | 82 ± 3 db |
| Response F0 | |
| Distortion | 5% MAX |

Bluetooth Interface

| Item | Specification |
|--------------------------|--|
| Chipset | <ul style="list-style-type: none"> Foxconn Bluetooth BCM2046 Foxconn Bluetooth BCM2070 Foxconn Bluetooth AR3011 |
| Radio Technology | FHSS |
| Operating Frequency | 2402 ~ 2480MHz ISM band |
| Channel Numbers | 79 channels with 1MHz BW |
| Transmitter Output Power | -6~4dBm output power for class2 operation |
| Receiver Sensitivity | -75dBm @ 0.1% BER (Max) |
| Maximum Receiver Signal | -10dBm |
| Operating Voltage | 3.3V+-0.3V |
| Interface | USB 2.0 |
| Protocol | BCM2046: BT2.1+EDR BCM2070: BT2.1+EDR; supports BT3.0+HS after driver upgrade AR3011: BT2.1+EDR; supports BT3.0+HS after driver upgrade |
| Connector type | BCM2046: 8 pin USB2.0 with JST SM08B-SURS-TF BCM2070: 6 pin JST SM06B-XSRK-ETB (HF) AR3011: SM08B-SURS-TF(LF)(SN) JST |

Hard Disk Drive Interface

| Item | Specification | | | | | | | |
|--|---|-----|-----|-----|---|-----|--|--|
| Capacity (GB) | 160 | | | | 250 | | | |
| Vendor & Model Name | Seagate ST9160314AS, HGST HTS545016B9A300, Toshiba MK1665GSX, WD WD1600BEVT-22A23T0 | | | | Seagate ST9250315AS, HGST HTS545025B9A300, Toshiba MK2565GSX, WD WD2500BEVT | | | |
| Bytes per sector | 512 | | | | | | | |
| Data heads | 2 | 1 | 2 | 3 | 2 | 1 | | |
| Drive Format | | | | | | | | |
| Disk | 1 | 1 | 1 | 2 | 2 | 1 | | |
| Spindle speed (RPM) | 5400 | | | | | | | |
| Performance Specifications | | | | | | | | |
| Buffer size | 8 MB | | | | | | | |
| Interface | SATA | | | | | | | |
| Max. Media Transfer Rate (Mbytes/sec max.) | 300 | 300 | 300 | 300 | 300 | 384 | | |
| Max. Data Transfer Rate (Mbytes/sec) | 1175, 875, TBD, 108544 | | | | 1175, 875, 1031, 108544 | | | |
| DC Power Requirements | | | | | | | | |
| Voltage tolerance | 5V ±5% | | | | | | | |

Hard Disk Drive Interface (continued)

| Item | Specification | | | | | | | | | | | |
|--|---|-----|-----|---|----------------------------|-----|-----|-----|--|--|--|--|
| Capacity (GB) | 320 | | | 500 | | | | | | | | |
| Vendor & Model Name | Seagate ST9320310AS HGST HTS545032B9A300 Toshiba MK3265GSX WD WD3200BPVT-22ZEST0 | | | Seagate ST9500325AS HGST HTS545050B9A300 Toshiba MK5065GSX WD WD5000BEVT-22A0RT0 | | | | | | | | |
| Bytes per sector | 512 | | | | | | | | | | | |
| Data heads | 3 | 2 | 2 | 4 | 2 | 2 | 1 | | | | | |
| Drive Format | | | | | | | | | | | | |
| Disks | 2 | 2 | 1 | 1 | 2 | 2 | 1 | | | | | |
| Spindle speed (RPM) | 5400 | | | | | | | | | | | |
| Performance Specifications | | | | | | | | | | | | |
| Buffer size | 8 MB | | | | | | | | | | | |
| Interface | SATA | | | | | | | | | | | |
| Max. Media Transfer Rate (Mbytes/sec max.) | 300 | 300 | 384 | 300 | 300 | 300 | 384 | 300 | | | | |
| Max. Data Transfer Rate (Mbytes/sec) | 1175, 112000, 1273, 108544 | | | | 1175, 112000, 1031, 108544 | | | | | | | |
| DC Power Requirements | | | | | | | | | | | | |
| Voltage tolerance | 5V ±5% | | | | | | | | | | | |

Hard Disk Drive Interface (continued)

| Item | Specification | |
|---|--|---------------------------------------|
| Capacity (GB) | 640 | 750 |
| Vendor & Model Name | Toshiba MK6465GSX Western Digital WD6400BEVT-22A0RT0 | Western Digital WD7500BPVT-22HXZT1 |
| Bytes per sector | 512 | |
| Data heads | 4 | |
| Drive Format | | |
| Disks | 2 | |
| Spindle speed (RPM) | 5400 | |
| Performance Specifications | | |
| Buffer size | 8 MB | |
| Interface | SATA | |
| Max. Media Transfer Rate (Mbytes/sec max.) | 300 | |
| Max. Data Transfer Rate (buffer to/from media) (Mbytes/sec) | 1273, 108544 | TBD, 108544 |
| DC Power Requirements | | |
| Voltage tolerance | 5V ±5% | |

USB Port

| Item | Specification |
|------------------------------|--|
| Chipset | SB820M |
| USB compliance level | USB 2.0 |
| OHCI/EHCI | 4 OHCI and 3 EHCI support 14 USB 2.0 ports and 2 dedicated USB 1.1 ports |
| Number of USB port(s) | 3 |
| Location | 2 on the right, 1 on the left |
| Serial port function control | SB820M |

Audio Subsystem

| Item | Specification |
|----------------------------|---|
| Audio Controller | Realtek ALC272X-GR |
| Audio on board or optional | on board |
| Mono or Stereo | Mono |
| Resolution | Primary 16/20/24-bit Secondary 16/20/24-bit |
| Audio Port | |
| Compatibility | <ul style="list-style-type: none">Analog jacks (port-A, B, C, E and G) support stereo input and output re-taskingSupport MONO output at port -HPort-A/D/E/F built in headphone amplifiersSupports external PCBEEP input and built -in digital BEEP generatorMeets Microsoft WLP (Windows Logo Program) audio requirements |
| Sampling rate | All DACs support independent 44.1k/48k/96k/192kHz sample rate |
| External | Mic jack Headphone/speaker/line-out jack |
| Internal speaker/quantity | Yes/1 (1W speakers) |

Video Interface

| Item | Specification |
|---------------|---|
| Chipset | RS880M AMD Park-XT |
| Package | 962-pins BGA 29mm x 29mm |
| Interface | LVDS |
| Compatibility | 16:9 HD, 1366(H) x768(V) screen and 262k colors |
| Sampling rate | 60 Hz |

VRAM (Discreet models only)

| Item | Specification |
|-------------|---|
| Chipset | AMD Park XT (BGA-962pin) |
| Memory size | GDDR3 / 512MB / 500MHz/ 64bits (64MBx16bit) |
| Interface | PCI Express |

HDMI Port

| Item | Specification |
|------------------------|---|
| Compliance level | 1.3 compliant |
| Thoroughput | Up to 2.5Gbps per lane (250MHz pixel clock) |
| Number of HDMI port(s) | 1 |
| Location | Left side |

PCMCIA Port (Not available in this model)

| Item | Specification |
|---------------------------------|---------------|
| PCMCIA controller | |
| Supports card type | |
| Number of slots | |
| Access location | |
| Supports ZV (Zoomed Video) port | |
| Supports 32-bit CardBus | |

IO Ports

| Item | Specification |
|------------|---|
| IO Support | RJ45 port DC-in Jack, VGA port, HDMI USB 2.0x3 Headphone/MIC jack 2-in-1 card reader (SD, MMC) |

Keyboard Controller

| Item | Specification |
|-------------------------|---|
| Controller | Winbond NPCE781 |
| Total number of keypads | 86 key for US/CA, 87 key for FR/SP/GM, 89 key for JP 19mm |
| Hotkeys | 12 function keys, four cursor keys, two window keys, hotkey control, international language supported See "Hot Keys" on page 15. |

I/O Ports

| Item | Specification |
|-------------|---|
| I/O support | <ul style="list-style-type: none">Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)Three USB 2.0 portsExternal display (VGA) portHeadphone/speaker/line-out jackMicrophone-in jackEthernet (RJ-45) portModem (RJ-11) portDC-in jack for AC adapterPort replicator connector |

Super-Multi Drive Module

| Item | Specification | | | | | |
|---------------------------|--|---------------------------------------|--|---------------------------------|--|--|
| Vendor & model name | HLDS GT32N | | Panasonic UJ8A0PSNAA-A | | | |
| Performance Specification | With CD Diskette | With DVD Diskette | With CD Diskette | With DVD Diskette | | |
| Transfer rate (MB/sec) | Sustained: 3.6 MB/s (24x) max. | Sustained: 11.08 MB/s (8x) max. | max. 24x CAV (max. 3.6 MB/s) | max. 8X CAV (max. 10.8 MB/s) | | |
| Buffer Memory | 1 MB | | | | | |
| Interface | SATA | | | | | |
| Applicable disc formats | 4.7GB (Single Layer) 8.5GB (Dual Layer) DVD-R: 3.95GB (Ver. 1.0: read only) 4.7GB (Ver. 2.0 for Authoring: read only) 4.7GB (Ver. 2.1 for General: read & write) (DL)8.5GB (Ver. 3.0) DVD-RW:4.7GB (Ver. 1.2/ Rev 1.0, 2.0, 3.0) DVD-RAM:4.7GB/side (Ver. 2.2) DVD+R: 4.7GB (Ver. 1.3)(DL) 8.5GB (Ver. 1.1) DVD+RW: 4.7GB (Vol.1 Ver.1.3) CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc CD-ROM XA, CD-I, Photo-CD Multi-Session, Video CD CD-Audio Disc Mixed mode CD-ROM disc (data and audio) CD-Extra CD-Text CD-R (Conforming to "Orange Book Part 2": read & write) CD-RW (Conforming to "Orange Book Part 3": read & write) | | DVD-VIDEO, DVD-ROM, DVD-R(4.7GB), DVD-R DL DVD-RW(Ver.1.1/1.2) DVD+R, DVD+R DL, DVD+RW DVD-RAM(4.7GB) CD-DA,CD-ROM,CD-ROM XA PhotoCD(multiSession) Video CD,Cd-Extra(CD+),CD-text | | | |
| Loading mechanism | Drawer type manual load Electrical release Emergency Release (draw open hole) | | | | | |
| Power Requirement | | | | | | |
| Input Voltage | DC 5 V +/- 5% | | | | | |

Super-Multi Drive Module (continued)

| Item | Specification | | | | | |
|---------------------------|--|--|---|--|--|--|
| Vendor & model name | PLDS DS8A4SH | | Sony AD7585H | | | |
| Performance Specification | With CD Diskette | With DVD Diskette | With CD Diskette | With DVD Diskette | | |
| Transfer rate (MB/sec) | Sustained: - CD-ROM inside 1.45 MB/s (min) - CD-ROM outside 3.5 MB/s (min) | Sustained: - DVD-ROM inside 3.7 MB/s (min) - DVD-ROM outside 10 MB/s (min) | Sustained: - CD-ROM inside 1.57 MB/s (typical) - CD-ROM outside 3.65 MB/s (typical) | Sustained: - DVD-ROM inside 4.57 MB/s (typical) - DVD-ROM outside 10.99 MB/s (typical) | | |
| Buffer Memory | 2 MB | | 2 MB | | | |
| Interface | SATA | | SATA | | | |
| Applicable disc formats | DVD-ROM, DVD-Video, DVD-Audio, DVD-RW DVD+RW DVD-R single/multi border(s) DVD+R single/multi session(s) DVD-R9 single/multi border(s) DVD+R9 single/multi session(s) DVD-RAM CD-DA, CD-TEXT, CD ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Form-2, CD-I Ready, Video-CD (MPEG-1), Photo-CD, Enhance CD, CD extra, UDF (fixed/variable Packet mode) | | DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-Video, DVD-Audio, SACD (Hybrid), UDF DVD, DVD-R, DVD-R DL, DVD-R 3.95 GB, DVD-R Authoring, DVD-R Multi-Border, DVD-R Download (DVD-R CSS, Qflix), DVD-RW, DVD-RW DL, DVD+R, DVD+R, DVD Data & Video CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, CD-i Bridge, Video-CD (MPEG-1), Karaoke CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, iTrax, CD, CD-Text, UDF CD, CD-R, and CD-RW, CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video-CD, CD-Text | | | |
| Loading mechanism | Manual load/ Plunger system | | | | | |
| Power Requirement | | | | | | |
| Input Voltage | DC 5 V +/- 5% | | | | | |

Super-Multi Drive Module (continued)

| Item | Specification | |
|---------------------------|---|--|
| Vendor & model name | Toshiba TSL633F | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (MB/sec) | Sustained: - CD-ROM/R Read (Mode1) Max 3.6 MB/sec - CD-RW Read (Mode1) Max 3.6 MB/sec | Sustained: - DVD-Single Read Max 10.8 MB/sec - DVD-ROM Dual Read Max 10.8 MB/sec - DVD±R Dual Read Max 8.1 MB/sec - DVD-RAM Read Max 6.75 MB/sec |
| Buffer Memory | 2 MB | |
| Interface | SATA | |
| Applicable disc formats | DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD±R Dual DVD-RAM CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part 1) CD-RW & HSRW (Orange Book Part 2) Volume1 & Volume2 Super Audio CD (SACD) Hybrid type US & US+ CD-RW | |
| Loading mechanism | Drawer (Solenoid Open) Tact SW (Open) Emergency Release (draw open hole) | |
| Power Requirement | | |
| Input Voltage | DC 5 V +/- 5% | |

RTC Battery

| Item | Specification |
|----------------|------------------------|
| Part name | Panasonic CR-2032L/DBE |
| Pack capacity | 225mAh |
| Normal voltage | 3V |

Main Battery

| Item | Specification | | | | | | |
|---------------------|---------------|---------|---------|-----------|---------|---------|---------|
| | 6 Cell | | | | | | |
| Vendor | Simplo | Simplo | Simplo | Panasonic | Sanyo | Samsung | Sony |
| Part name | AS10D71 | AS10D73 | AS10D75 | AS10D51 | As10D31 | AS10D51 | AS10D41 |
| Battery Type | Li-ion | | | | | | |
| Pack capacity | 4400 mAh | | | | | | |
| Normal voltage | 11.1V | 11.1V | 11.1V | 10.8V | 10.8V | 11.1V | 10.8V |
| Charge voltage | 12.6V | | | | | | |
| Fast charge current | 3520 mA | | | | | | |

LCD Inverter (Not available in this model)

| Item | Specification |
|--------------------------------|---------------|
| Vendor & model name | |
| Brightness conditions | |
| Input voltage (v) | |
| Input current (mA) | |
| Output voltage (V, RMS) | |
| Output current (mA, RMS) | |
| Output voltage frequency (KHz) | |

External Display Supported Resolution

| Resolution | 24 bits | 30 bits | 36 bits | 48 bits |
|----------------------|---------|---------|---------|---------|
| 640X480p/60Hz 4:3 | Yes | NA | NA | NA |
| 720X480p/60Hz 4:3 | NA | NA | NA | NA |
| 640X480p/60Hz 16:9 | NA | NA | NA | NA |
| 1280X720p/60Hz 16:9 | Yes | NA | NA | NA |
| 1920X1080p/60Hz 16:9 | Yes | NA | NA | NA |
| 1440X480p/60Hz 4:3 | NA | NA | NA | NA |
| 1440X480p/60Hz 16:9 | NA | NA | NA | NA |
| 1920X1080p/50Hz 16:9 | Yes | NA | NA | NA |
| 720X576p/50Hz 4:3 | Yes | NA | NA | NA |
| 720X576p/50Hz 16:9 | NA | NA | NA | NA |
| 1280X720p/50Hz 16:9 | Yes | NA | NA | NA |
| 1920X1080i/50Hz 16:9 | Yes | NA | NA | NA |
| 1440X576i/50Hz 4:3 | NA | NA | NA | NA |
| 1440X576i/50Hz 16:9 | NA | NA | NA | NA |
| 1920X1080p/50Hz 16:9 | Yes | NA | NA | NA |

LCD

| Item | Specification | | | | | |
|---|--|--|--|--|--|--|
| Vendor/model name | AUO B140XW01 V8 | Chimei BT140GW01 | LG LP140WH1 | Samsung LTN140AT01-G03 | | |
| Screen Diagonal (mm) | 14" diagonal mm | | | | | |
| Display Area (mm) | 309.4 x 173.95 mm | | | | | |
| Display resolution (pixels) | 1366 x 768 | | | | | |
| Pixel Pitch | 0.2265 x 0.2265 mm | | | | | |
| Display Mode | Normally white | | | | | |
| Typical White Luminance (cd/m ²) (also called Brightness) | 200 typ. 170 min. | 220 typ. 200 min. | 220 | 220 typ. 190 min. | | |
| Contrast Ratio (typical) | 500 | 600 | 500 | 500 | | |
| Response Time (Optical Rise Time/Fall Time) msec | 8 typ. / 16 max. | 8 typ. / 15 max. | | 8 typ. / 12 max. | | |
| Weight | 350 max. | | | | | |
| Physical Size (mm) | 324 (H) x 192.5 (V) x 5.2 (D) mm | | | | | |
| Electrical Interface | 1 channel LVDS | | | | | |
| Support Color | 16.7 million colors | | | | | |
| Viewing Angle (up/down/right/left) | 40 Degrees (L+R), 15 Degrees (H), 35 Degrees (L) | 40 Degrees (L+R), 15 Degrees (H), 30 Degrees (L) | 40 Degrees (L+R), 10 Degrees (H), 30 Degrees (L) | 45 Degrees (L+R), 15 Degrees (H), 35 Degrees (L) | | |
| Temperature Range (°C) | | | | | | |
| Operating | 0 Min - 50 Max | | | | | |
| Storage (shipping) | -20 Min - 60 Max | | | | | |

Camera

| Item | Specification | | |
|---------------------------|--|--|---|
| Vendor and model | Chicony CNF9157 | Liteon 09P2SF119 | Suyin F1315-S32B-OV01 |
| Type | CMOS image sensor with SXGA | | |
| Interface | USB 2.0 | | |
| Focusing range | 31.4cm ~ infinity | 32cm ~ infinity | 70 mm |
| Dimensions (L x W x H mm) | 65.0±0.3 X 8.0±0.1 X 3.69+0.11/-0.2 mm | 65.0 x 8.0 x 3.53 ±0.2mm | 65 x 8.0 x 3.74 mm |
| Sensor type | SXGA CMOS sensor | | |
| Pixel resolution | 1280x1024, 1280x800, 640x480, 352x288, 320x240, 176x144, 160x120 | 1280x1024, 1024x768, 640x480, 350x288, 320x240, 176x144, 160x120 | 1280x1024, 1024x768, 800x600, 640x480, 352x288, 320x240, 176x144, 160x120 |
| Pixel size | 2 um x 2 um | | |
| Image size | 1.3 MP | | |

Card Reader

| Item | Specification |
|----------|--|
| Chipset | AU6437-GBL |
| Features | Secure Digital™ (SD) Card, MultiMediaCard (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD) |

System LED Indicator

| Item | Specification |
|--------------------------------|-----------------------------------|
| Drive Activity | Power Led: Blue Suspend: Amber |
| Primary Battery charging state | Amber: Battery Charging |

AC Adapter

| Item | Specification |
|--------------------------|------------------------------------|
| Input rating | 100~240Vac, 50Hz~60Hz |
| Maximum input AC current | 264 Vac, 63Hz |
| Inrush current | 264 Vac; (Cold Start) No damage |
| Efficiency | Meets EPA 2.0 level V requirements |

Trusted Platform Module (TPM) (Not available with this model)

| Item | Specification |
|---------------------|---------------|
| Version | |
| Hardware controller | |

System Power Management

| Item | Initial | On | Standby | Suspend | Hibernate | Soft Off |
|---------------|---------|----|---------|---------|-----------|----------|
| Initial | | 1 | | | | |
| On(S0) | | | 2 | 3 | 4 | 5 |
| Standby(S1) | | 6 | | | | |
| Suspend(S3) | | 7 | | | | |
| Hibernate(S4) | | 8 | | | | |
| Soft Off(S5) | | 9 | | | | |

Mechanical off is a condition where all power except the RTC battery has been removed from the system.

1. Initial to On state: When the AC adapter or Battery pack has been plugged into the system, the I WPC781 will be reset and initial all output pins then the system goes into Initial state and waiting for power on event. If the power button is pressed then the system will go into the ON state.
2. ON to Standby state: The system will go into the Standby state when SB820M receives the POS command.
3. ON to Suspend state: The system will go into Suspend state when SB820M receives the S2R command.
4. ON to Hibernate state: The system will go into Hibernate state when SB820M receives the S2D command.
5. ON to Soft Off state: The system will go into Soft Off state when SB820M receives the Soft off command.
6. Standby to ON state: The system will go into ON state when the system receives any wake up events, for example, keyboard, mouse.
7. Suspend to ON state: The system will go into ON state when the power button is pressed.
8. Hibernate to ON state: The system will go into ON state when the power button is pressed.
9. Soft Off to ON state: The system will go into ON state when the power button is pressed.

System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when **Press <F2> to enter Setup** message is prompted on the bottom of screen).

Press **F2** to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press **<F12>** during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

Navigating the BIOS Utility

There are five menu options: Information, Main, Security, Boot, and Exit.

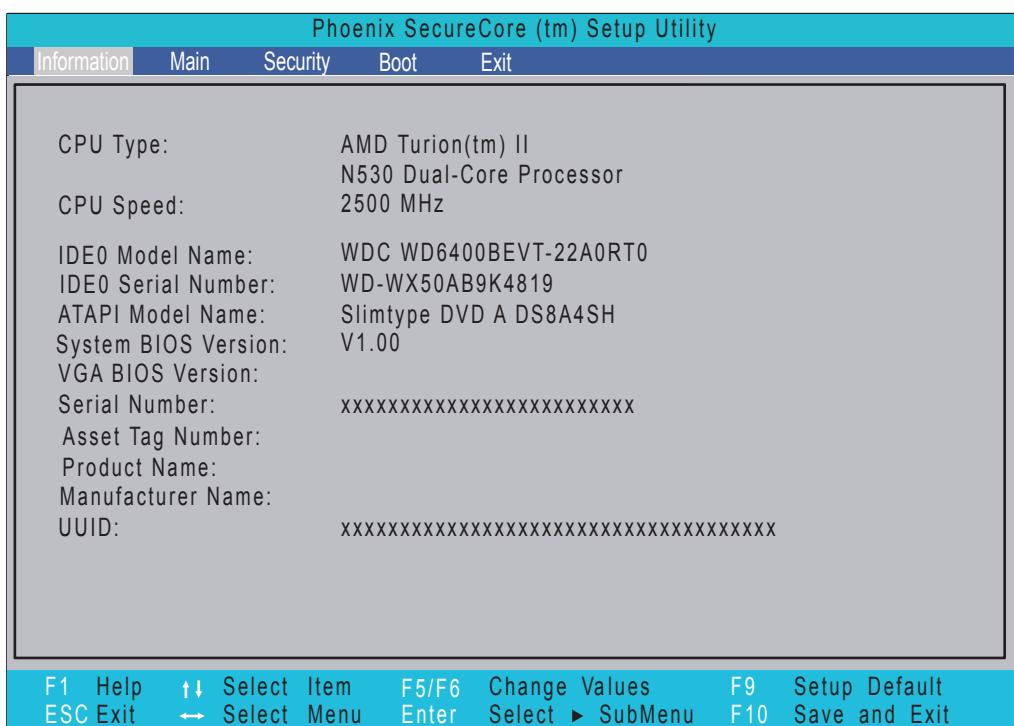
Follow these instructions:

- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- A plus sign (+) indicates the item has sub-items. Press **Enter** to expand this item.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models.**

Information

The Information screen displays a summary of your computer hardware information.

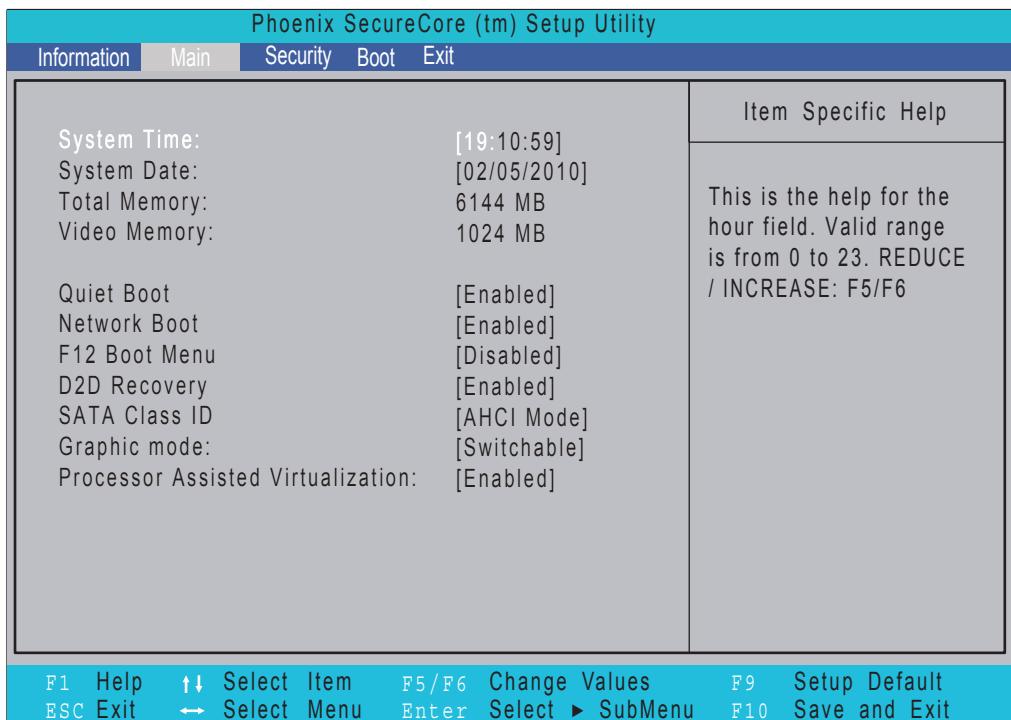


NOTE: The system information is subject to different models.

| Parameter | Description |
|---------------------|--|
| CPU Type | This field shows the CPU type and speed of the system. |
| CPU Speed | This field shows the speed of the CPU. |
| IDE0 Model Name | This field shows the model name of HDD installed on primary IDE master. |
| IDE0 Serial Number | This field displays the serial number of HDD installed on primary IDE master. |
| ATAPI Model Name | This field displays the model name of the installed ODD drive. |
| System BIOS Version | Displays system BIOS version. |
| VGA BIOS Version | This field displays the VGA firmware version of the system. |
| Serial Number | This field displays the serial number of this unit. |
| Asset Tag Number | This field displays the asset tag number of the system. |
| Product Name | This field shows product name of the system. |
| Manufacturer Name | This field displays the manufacturer of this system. |
| UUID | Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE). |

Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



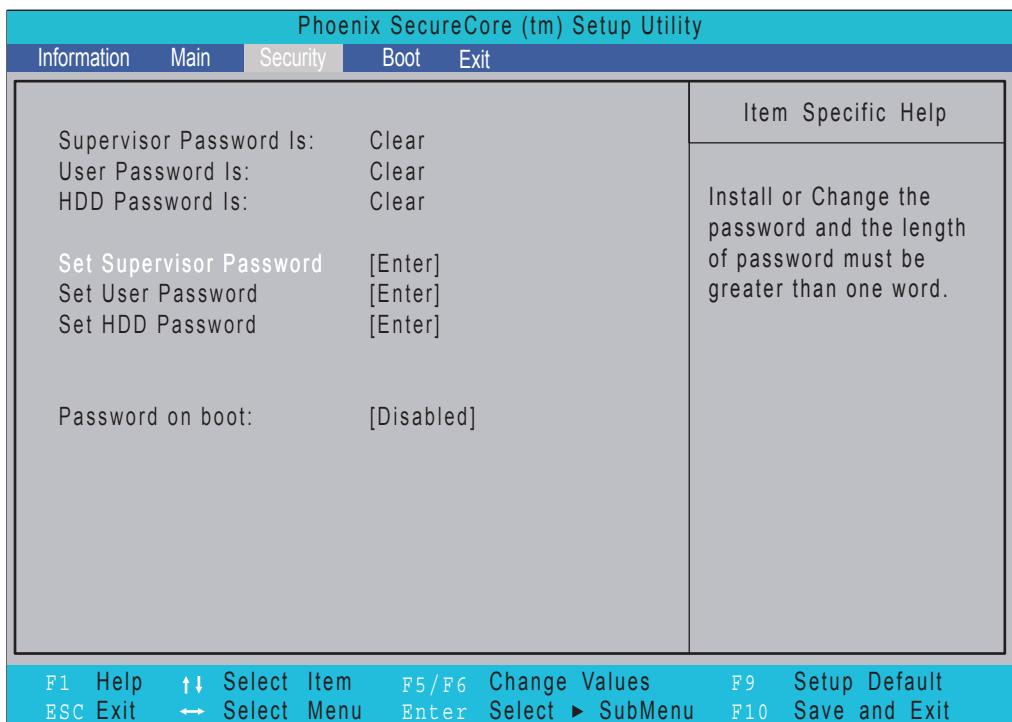
NOTE: The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Format/Option |
|-----------------------------------|---|--|
| System Time | Sets the system time. The hours are displayed with 24-hour format. | Format: HH:MM:SS (hour:minute:second) |
| System Date | Sets the system date. | Format MM/DD/YYYY (month/day/year) |
| Total Memory | This field reports the memory size of the system. Memory size is fixed to 4096MB. | N/A |
| Video Memory | Shows the video memory size. VGA Memory size=32 MB | N/A |
| Quiet Boot | This will hide POST messages while booting. | Option: Enabled or Disabled |
| Network Boot | Enables, disables the system boot from LAN (remote server). | Option: Enabled or Disabled |
| F12 Boot Menu | Enables, disables Boot Menu during POST. | Option: Disabled or Enabled |
| D2D Recovery | Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults. | Option: Enabled or Disabled |
| SATA Class ID | Control the mode in which the SATA controller should operate. | Option: AHCI mode or IDE mode |
| Graphic mode | Controls the graphics mode. Note: this option is only available on discrete systems | Option: Switchable or Discrete |
| Processor Assisted Virtualization | Enables, disables processor assisted virtualization. Note: this option is only available on CPUs that support this function. | Option: Enabled or Disabled |

Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.



The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Option |
|-------------------------|--|----------------------------|
| Supervisor Password Is | Shows the setting of the Supervisor password | Clear or Set |
| User Password Is | Shows the setting of the user password. | Clear or Set |
| HDD Password Is | Shows the setting of the user password | Clear or Set |
| Set Supervisor Password | Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters. | N/A |
| Set User Password | Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters. | N/A |
| Set HDD Password | Press Enter to set the HDD password. When set this protects the HDD from unauthorized access. | N/A |
| Password on boot | Defines whether a password is required or not while the events defined in this group happened. The sub-options all require the Supervisor password for changes and should be grayed out if the user password was used to enter setup. | Disabled or Enabled |

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget the password. If you forget the password, you may have to reset the computer.

Setting a Password

Follow these steps as you set the user or the supervisor password:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears:



2. Type a password in the "Enter New Password" field. The password length can not exceed 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **Enter**. After setting the password, the computer sets the User Password parameter to "Set".
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Press **Enter** twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to "Clear".

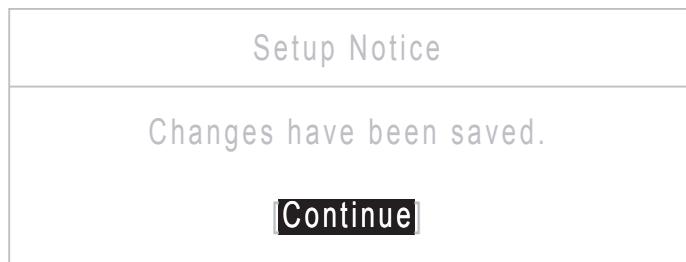
Changing a Password

1. Use the **↑** and **↓** keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears.



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. After setting the password, the computer sets the User Password parameter to "Set".
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press **F10** to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.



The password setting is complete after the user presses **Enter**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

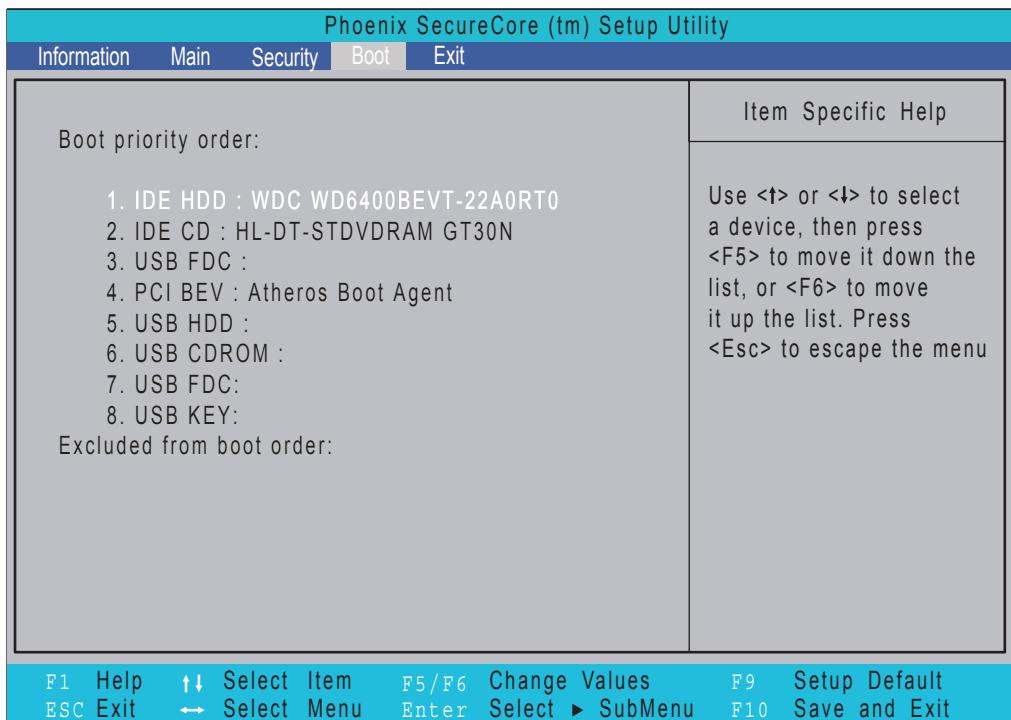


If the new password and confirm new password strings do not match, the screen displays the following message.



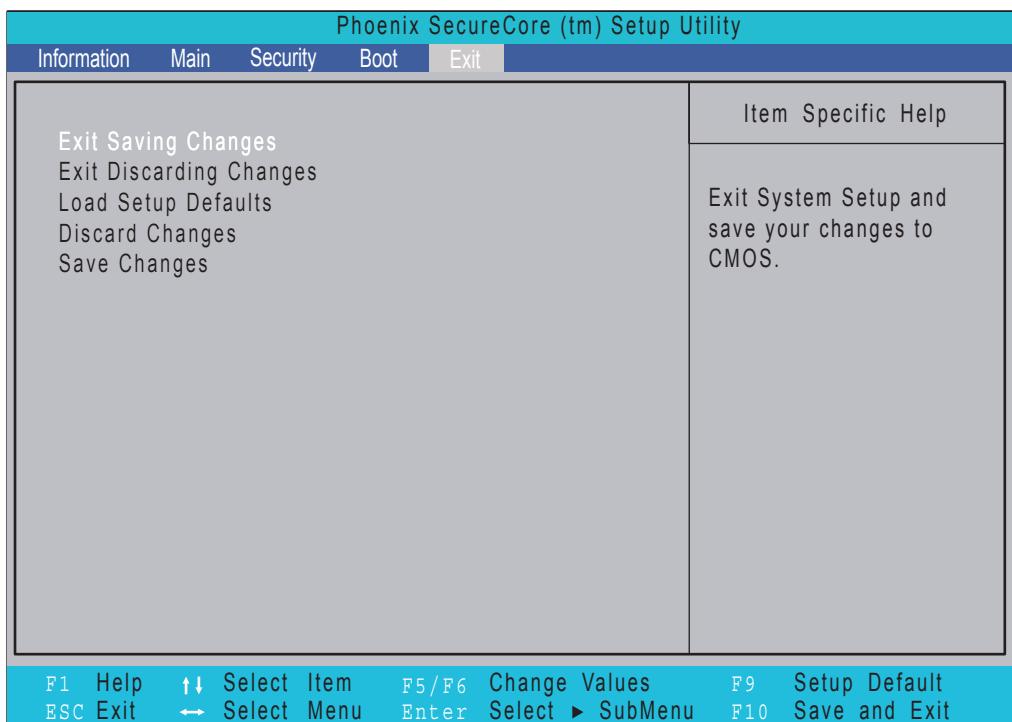
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the USB diskette drives, the onboard hard disk drive and the DVD drive in the module bay.



Exit

The Exit screen allows you to save or discard any changes you made and quit the BIOS Utility.



The table below describes the parameters in this screen.

| Parameter | Description |
|-------------------------|---|
| Exit Saving Changes | Exit System Setup and save your changes to CMOS. |
| Exit Discarding Changes | Exit utility without saving setup data to CMOS. |
| Load Setup Default | Load default values for all SETUP item. |
| Discard Changes | Load previous values from CMOS for all SETUP items. |
| Save Changes | Save Setup Data to CMOS. |

BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

DOS Flash Utility

Perform the following steps to use the DOS Flash Utility:

1. Copy ZQ5v0.08.exe to a USB stick.
2. **Boot to DOS mode.**
3. **Execute ZQ5v0.08.exe in DOS mode to begin the flash process. The system will restart automatically when finished.**

WinFlash Utility

Perform the following steps to use the WinFlash Utility:

1. Double click the WinFlash executable (WinPhlash2.0.3.4), then choose "ZA8_3101.WPH" to continue.
2. If the AC adapter is disconnected, the following message displays.



3. After 5 to 10 seconds the Flash application will launch and run automatically.



4. The system will restart automatically when the upgrade is complete.

Remove HDD/BIOS Password Utilities

This section provides you with details about removing HDD/BIOS password:

Remove HDD Password:

If you key in the wrong HDD password three times, an error is generated.



To reset the HDD password, perform the following steps:

1. On another computer, run HDD_PW.exe.
2. Enter "hdd_pw 15494 0"
3. Choose one (1) of the generated passwords.

```
C:\WINDOWS\system32\cmd.exe
F:\>cd password
F:\>password>dir/w
Volume in drive F has no label.
Volume Serial Number is D4F6-0236

Directory of F:\password

[.]      [..]      BIOS_PW.EXE  HDD_PW.EXE
1.      2 File(s)   35,354 bytes
1.      2 Dir(s)   487,895,040 bytes free

F:\>password>hdd_pw 15494 0
unlock6.exe  v1.1  2 May 2003

Choice what kind of the password to be generated:
0.) Exit...
1.) Scan Code
2.) Upper case ASCII Code
3.) Lower case ASCII Code
Enter your choice:2
8KJFN42 3.
UWEIQ96
F:\>password>
```

4. Reboot the locked computer and key in one of the passwords from number 3 above.



Removing BIOS Passwords:

If you key in the wrong Supervisor Password three times, System Disabled displays on the screen as below.

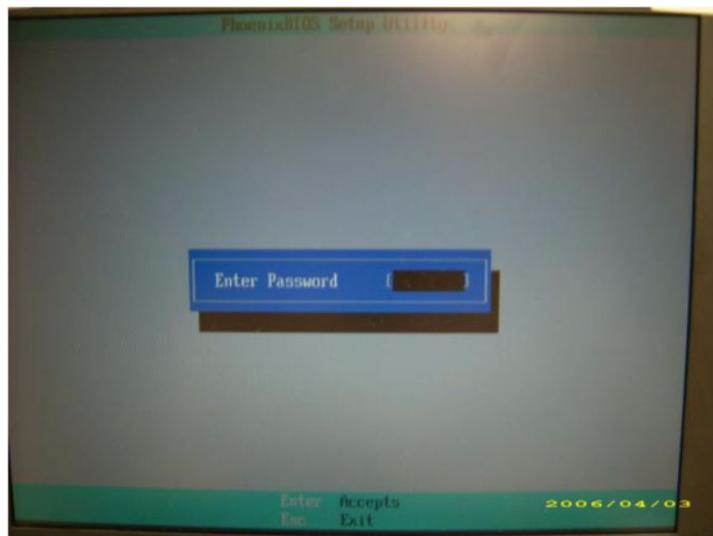


To reset the BIOS password, run BIOS_PW.EXE on a second machine as follows:

1. At a command prompt, type **bios_pw 14452 0**.
2. Select one string from the list.



3. Reboot the system and type the selected string (in this example qjjg9vy or 07yqmjd etc.) for the BIOS user password.



Cleaning BIOS Passwords

To clear the password, perform the following steps:

1. From a DOS prompt, Execute **clnpwd.exe**

```
d:\Clnpwd>clnpwd
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
    1.User Password
    2.Supervisor Password

Clean User Password Successfully!
```

2. Press 1 or 2 to clean the desired password shown on the screen.

The onscreen message determines whether the function is successful or not.

Miscellaneous Utilities

Using Boot Sequence Selector

Boot Sequence Selector allows the boot order to be changes without accessing the BIOS. To use Boot Sequence Selector, perform the following steps:

1. Enter into DOS.
2. Execute BS.exe to display the usage screen.

```
d:\BOOTSEQ>bs
*** Boot Sequence Selector Version 0.03 ***
Create by Rockwell Chuang 10/01/2005.

Usage:
      BS [ 1 | 2 | 3 | 4 ]

BS 1 : [ Floppy ] => [ HardDisk ] => [ CD-ROM ] => [ LAN ]
BS 2 : [ HardDisk ] => [ CD-ROM ] => [ LAN ] => [ Floppy ]
BS 3 : [ CD-ROM ] => [ HardDisk ] => [ LAN ] => [ Floppy ]
BS 4 : [ LAN ] => [ Floppy ] => [ HardDisk ] => [ CD-ROM ]

d:\BOOTSEQ>
```

3. Select the desired boot sequence by entering the corresponding sequence, for example, enter BS2 to change the boot sequence to HDD|CD ROM|LAN|Floppy.

Using DMITools

The DMI (Desktop Management Interface) Tool copies BIOS information to eeprom to be used in the DMI pool for hardware management.

When the BIOS displays **Verifying DMI pool data** it is checking the table correlates with the hardware before sending to the operating system (Windows, etc.).

To update the DMI Pool, perform the following steps:

1. Enter into DOS.
2. Execute **dmitools.exe**. The following messages show dmitools usage:

```
*** Compaq DMI String R/W Utility Ver1.40 for 2006/03/14 ***

Usage:

      DMITOOLS [ /R | /WP | /WS | /WU ] [ STRING ]

      [/R]   : Read DMI Information from Memory
      [/WM]  : Write Manufacturer Name to EEPROM. (Max.= 16 characters)
      [/WP]  : Write Product Name to EEPROM.      (Max.= 16 characters)
      [/WS]  : Write Serial Number to EEPROM.     (Max.= 22 characters)
      [/WU]  : Write UUID to EEPROM.             (Ignore String      )
      [/WA]  : Write Asset Tag to EEPROM.        (Max.= 32 characters)
```

IMPORTANT:The following write examples (2 to 5) require a system reboot to take effect

Example 1: Read DMI Information from Memory

Input:

```
dmitools /r
```

Output:

```
Manufacturer (Type1, Offset04h): Acer
Product Name (Type1, Offset05h): NS41 xxxx
Serial Number (Type1, Offset07h): 01234567890123456789
UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx
Asset Tag (Type3, Offset04h): Acer Asstag
```

Example 2: Write Product Name to EEPROM

Input:

```
dmitools /wp Gateway
```

Example 3: Write Serial Number to EEPROM

Input:

```
dmitools /ws 01234567890123456789
```

Example 4: Write UUID to EEPROM

Input:

```
dmitools /wu
```

Example 5: Write Asset Tag to EEPROM

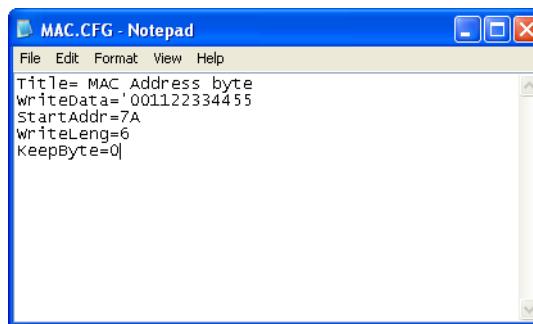
Input:

```
dmitools /wa Gatewa Asstag
```

Using the LAN MAC Utility

Perform the following steps to write MAC information to eeprom:

1. Use a text editor, for example Notepad, to edit the MAC.CFG file as shown:



- WriteData= '001122334455' <----- MAC value
- StartAddr=7A <----- MAC address
- WriteLeng=6 <----- MAC value length
- KeepByte=0 <----- can be any value

2. Boot into DOS.
3. Execute **MAC.BAT** to write MAC information to eeprom.

Machine Disassembly and Replacement

IMPORTANT: The outside housing and color may vary from the mass produced model.

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.

Disassembly Process

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the mainboard, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

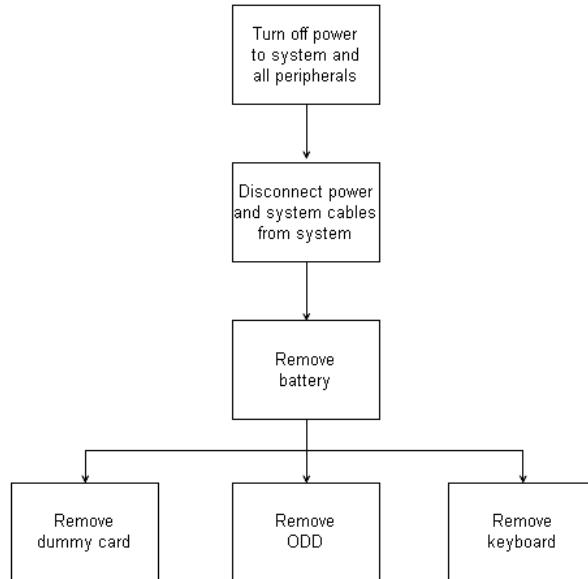
| Screw | Quantity | Part Number |
|--------------|----------|--------------|
| M2.0*3.0-I | 15 | 86.ARE07.002 |
| M2.5*4.0-I | 9 | 86.R6Z07.001 |
| M2.5*5.0-I | 2 | 86.T23V7.010 |
| M2.5*6.5-I | 22 | 86.ARE07.001 |
| M3.0X3.5-NIH | 4 | 86.N1407.007 |
| M2-0.4*2-I | 1 | 86.W4107.002 |

External Modules Disassembly Process

IMPORTANT: The outside housing and color may vary from the mass produced model.

External Modules Disassembly Flowchart

The flowchart below gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the mainboard, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

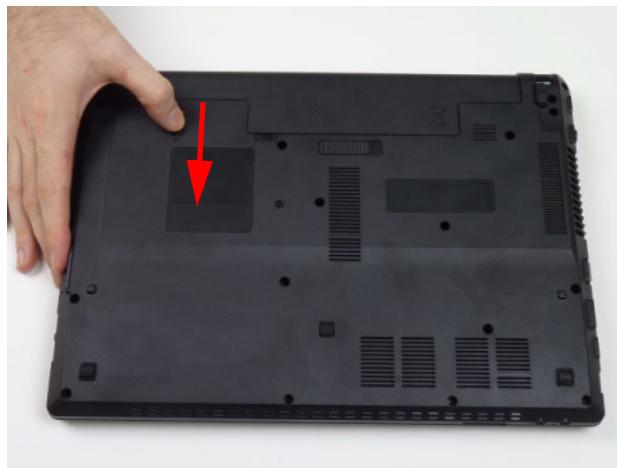


Screw List

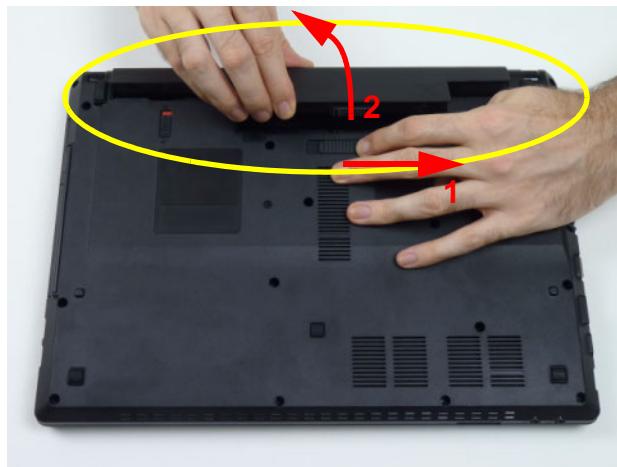
| Step | Screw | Quantity | Part No. |
|-------------------------|------------|----------|--------------|
| ODD Module Disassembly | M2.5*6.5-l | 1 | 86.ARE07.001 |
| ODD Bracket Disassembly | M2.0*3.0-l | 2 | 86.ARE07.002 |

Removing the Battery Pack

1. Turn the computer over. Slide the battery lock in the direction shown.



2. Slide and hold the battery release latch to the release position (1), then lift out the battery pack from the main unit (2).



NOTE: Please detach the battery and follow local regulations for disposal.

Removing the SD Dummy Card

1. See “Removing the Battery Pack” on page 51.
2. Push the SD dummy card all the way in to eject it.

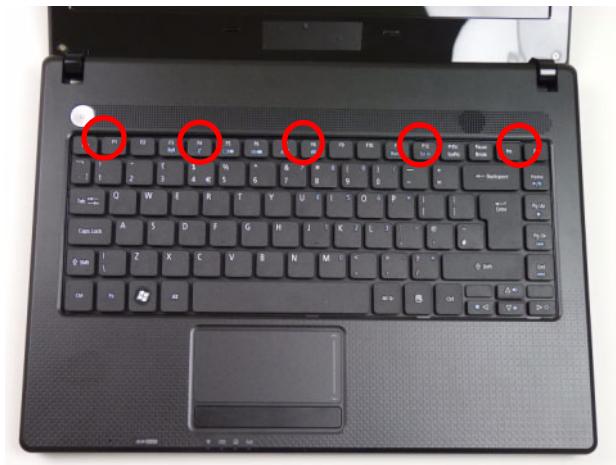


3. Pull it out from the slot.



Removing the Keyboard

1. See "Removing the Battery Pack" on page 51.
2. Turn the computer over and fully open the lid. There are five (5) securing clips that must be released in order to remove the keyboard.



3. Release each clip, working from one side to the other.



4. Using both hands, gently pry up the keyboard as shown and turn it over onto the palm rest.



5. Unlock the keyboard FPC and disconnect the cable as shown. Lift the keyboard clear of the chassis.



6. Unlock and disconnect the Touchpad FPC from the mainboard:



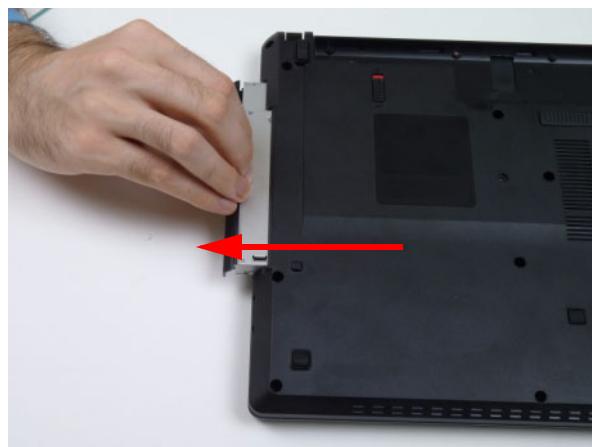
Removing the ODD Module

1. See "Removing the Battery Pack" on page 51.
2. Remove the one (1) screw securing the ODD module in place.

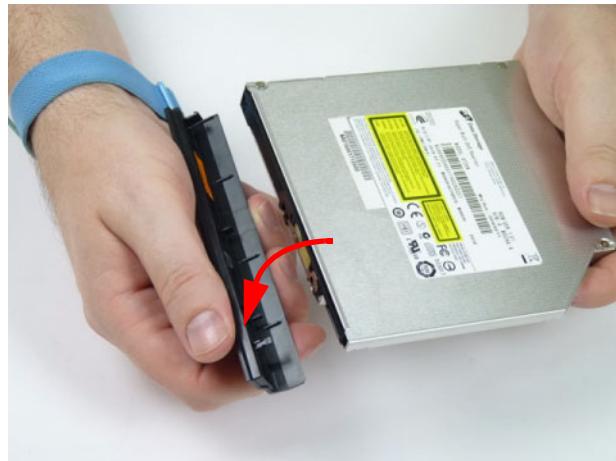


| Step | Size | Quantity | Screw Type |
|-------------------------|----------|----------|---|
| ODD Bracket Disassembly | M2.0*3.0 | 2 |  |

3. Grasp the ODD by the bezel and slide it out of the chassis.



4. Remove the ODD bezel by rotating the top edge downward.



5. Remove the two screws securing the ODD bracket.



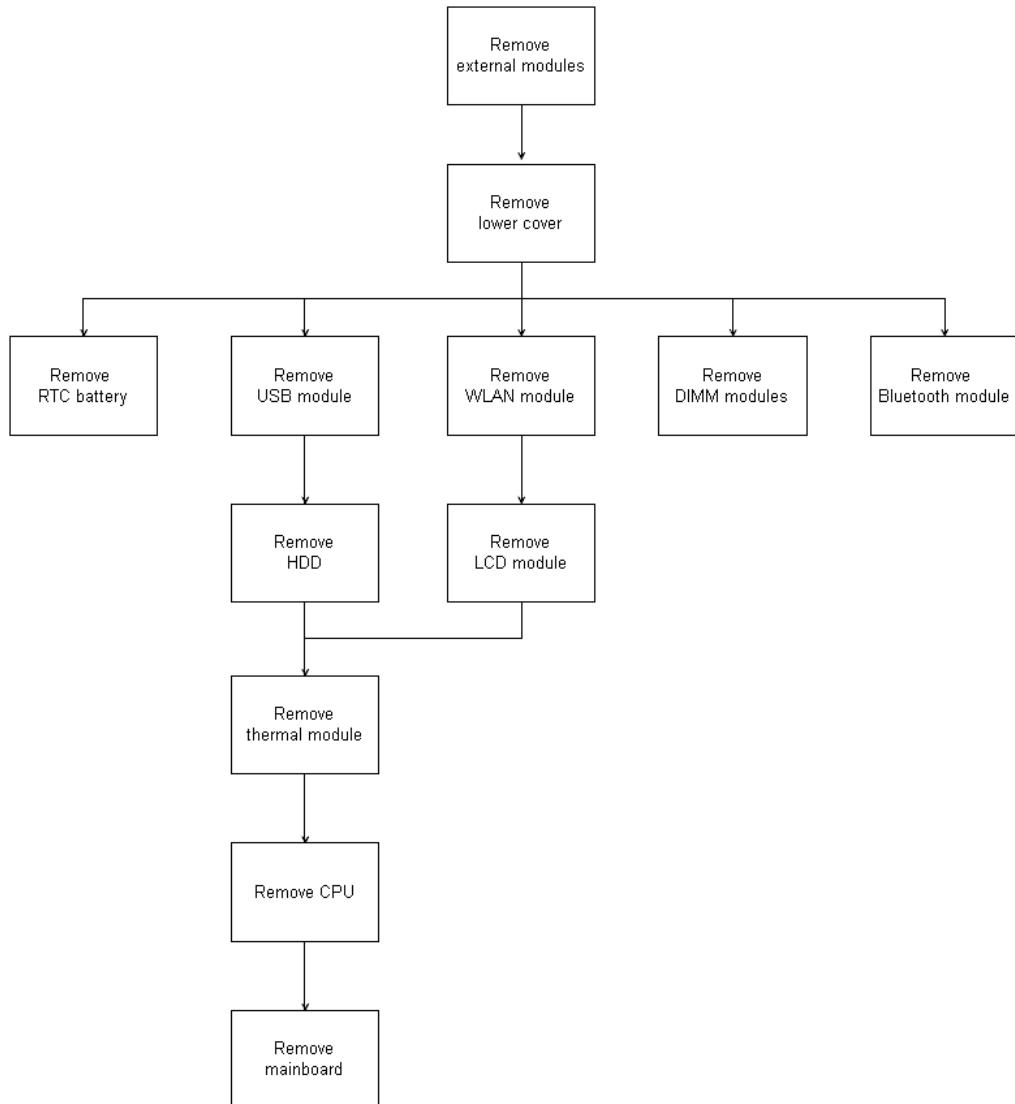
| Step | Size | Quantity | Screw Type |
|-------------------------|----------|----------|------------|
| ODD Bracket Disassembly | M2.0*3.0 | 2 | |

6. Remove the bracket from the ODD.



Main Unit Disassembly Process

Main Unit Disassembly Flowchart

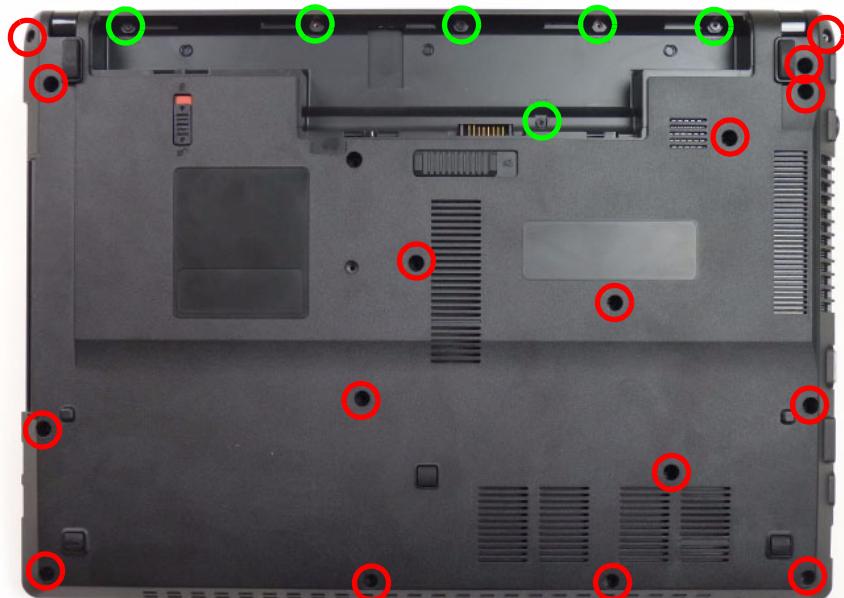


Screw List

| Step | Screw | Quantity | Part No. |
|----------------------------|------------|----------|--------------|
| LCD Module | M2.5*6.5-I | 4 | 86.ARE07.001 |
| Lower Cover Disassembly | M2.5*6.5-I | 17 | 86.ARE07.001 |
| | M2.0*3.0-I | 6 | 86.ARE07.002 |
| USB Board Disassembly | M2.5*4.0-I | 1 | 86.R6Z07.001 |
| HDD Module Disassembly | M2.0*4.0-I | 1 | 86.W4107.002 |
| HDD Bracket | M3.0X3.5 | 4 | 86.N1407.007 |
| WLAN Module Disassembly | M2.0*3.0-I | 1 | 86.ARE07.002 |
| Mainboard Disassembly | M2.5*4.0-I | 1 | 86.R6Z07.001 |
| Thermal Module Disassembly | M2.5*4.0-I | 1 | 86.R6Z07.001 |

Removing the Lower Cover

1. See “External Modules Disassembly Process” on page 50.
2. Remove the twenty two (22) securing screws from the lower cover.



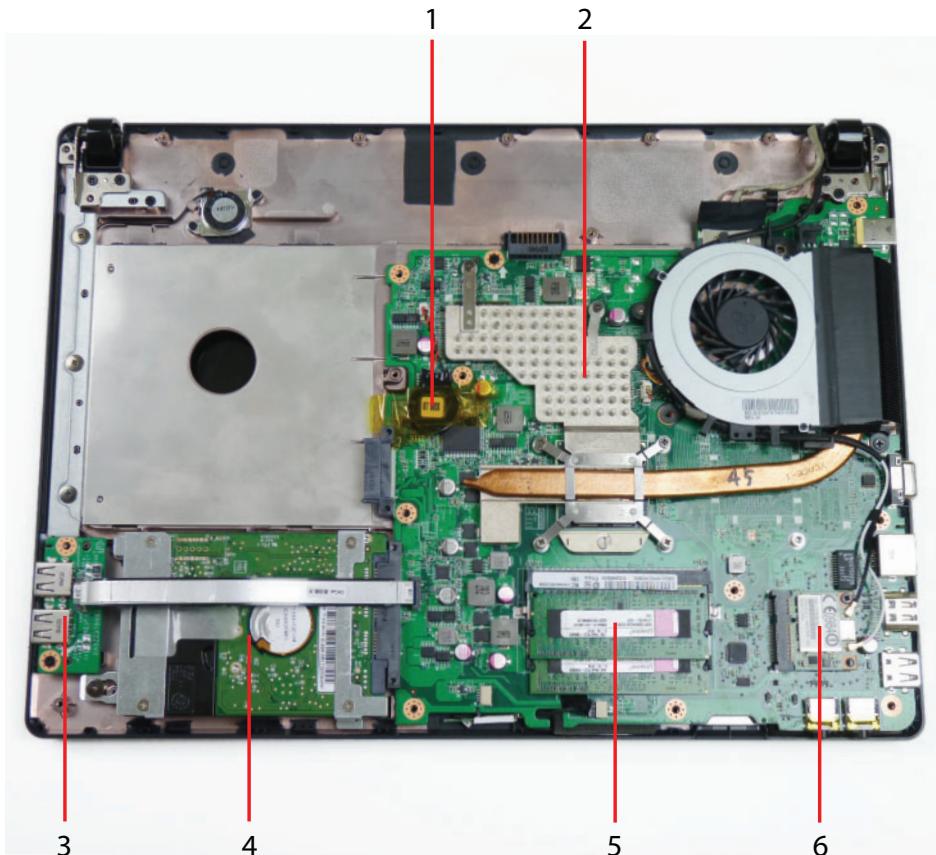
| Step | Size | Quantity | Screw Type |
|--------------------------------|----------|----------|------------|
| Lower Cover (red callout) | M2.0*6.0 | 16 | |
| Battery Bay (green callout) | M2.0*3.0 | 6 | |

3. Grasp the ODD bay and the other hand on the other edge of the lower cover. Lift the lower cover from the device.



Component Overview

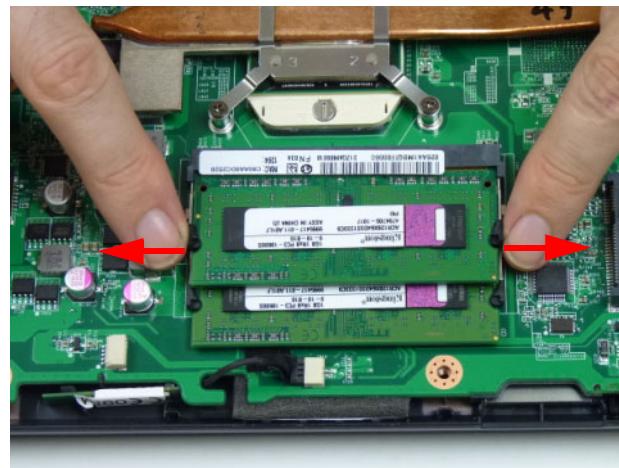
Main components are assembled on the mainboard as illustrated in the following graphic.



| Item | Description | Item | Description |
|------|--------------|------|-------------|
| 1 | RTC battery | 2 | Heatsink |
| 3 | USB board | 4 | HDD |
| 5 | DIMM modules | 6 | WLAN module |

Removing the DIMM Modules

1. See “Removing the Lower Cover” on page 58.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.



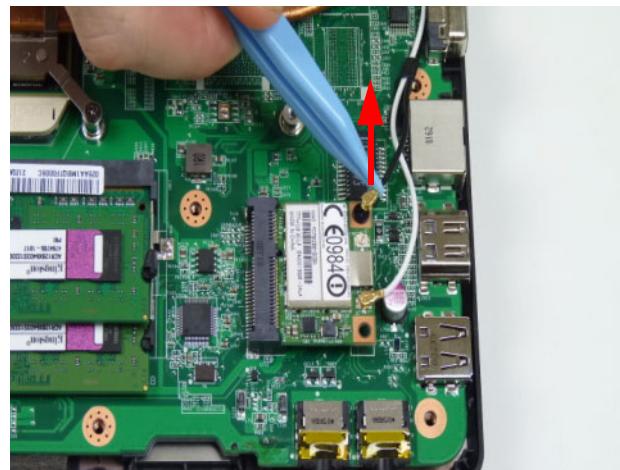
3. Remove the DIMM module.



4. Repeat steps for the second DIMM module if present.

Removing the WLAN Module

1. See "Removing the Lower Cover" on page 58.
2. Disconnect the two (2) cables from the WLAN board.



3. Remove the one (1) screw.



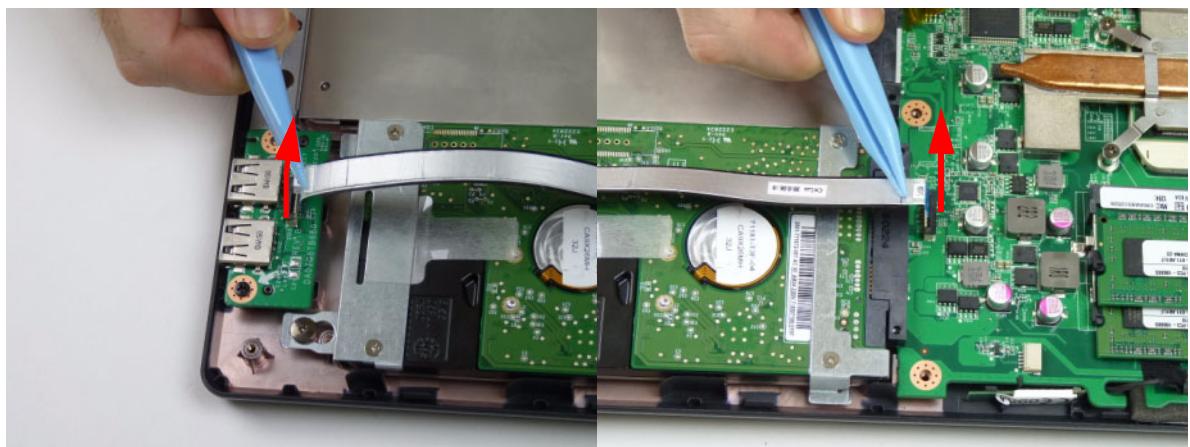
| Step | Size | Quantity | Screw Type |
|------------------------|----------|----------|---|
| WLAN Board Disassembly | M2.0*3.0 | 1 |  |

4. Detach and remove the WLAN board from the WLAN socket.



Removing the USB Board

1. See "Removing the Lower Cover" on page 58.
2. Unlock and disconnect the USB FFC from the USB board and mainboard connectors.



3. Remove the one (1) screw from the USB board.



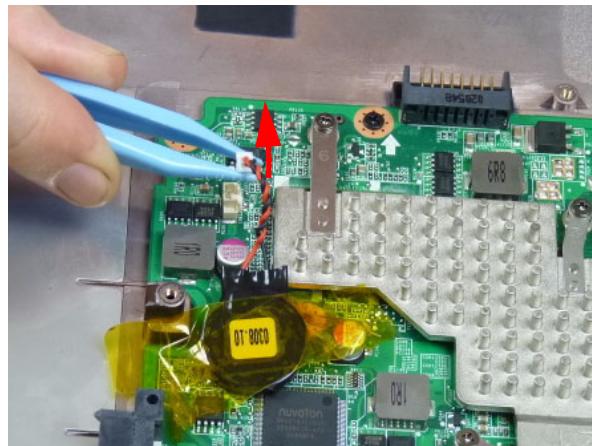
| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| USB Board Disassembly | M2.0*2.0 | 1 |  |

4. Lift the USB board upward and away from the chassis.

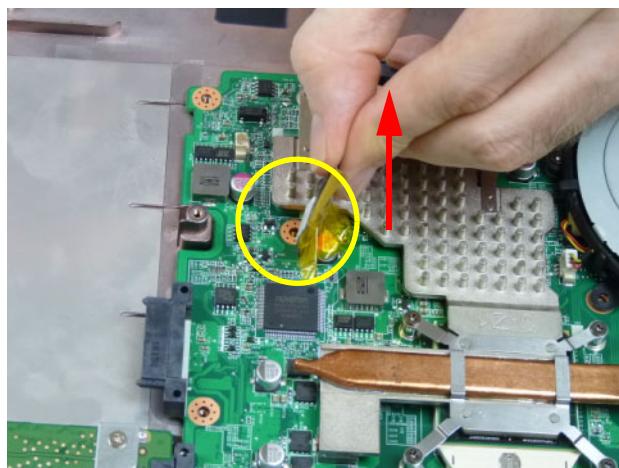


Removing the RTC Battery

1. See “Removing the Lower Cover” on page 58.
2. Disconnect the RTC battery cable from the mainboard.



3. Lift the RTC battery away from the mainboard.



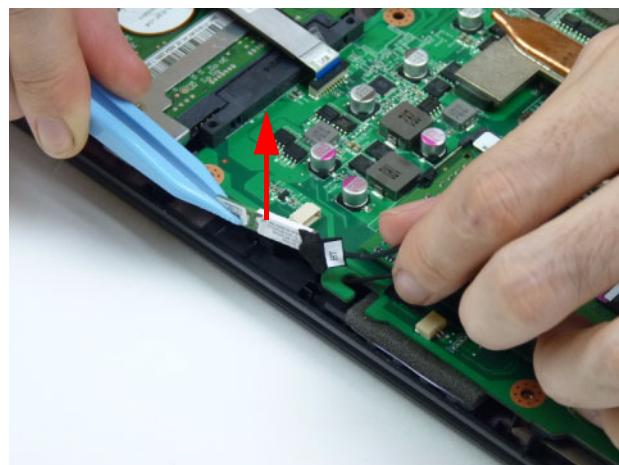
NOTE: The RTC battery has been highlighted with a yellow callout in the previous image. Please detach the RTC battery and follow local regulations for disposal.

Removing the Bluetooth Module

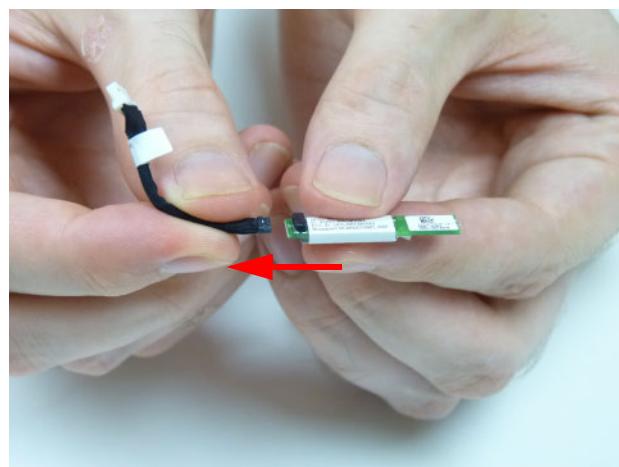
1. See “Removing the Lower Cover” on page 58.
2. Disconnect the Bluetooth cable from the mainboard.



3. Gently pry the Bluetooth module upwards and away from the mainboard.

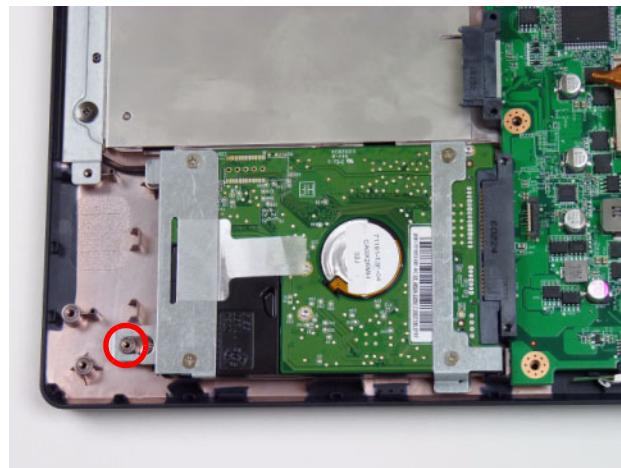


4. Disconnect the Bluetooth cable from the Bluetooth module.



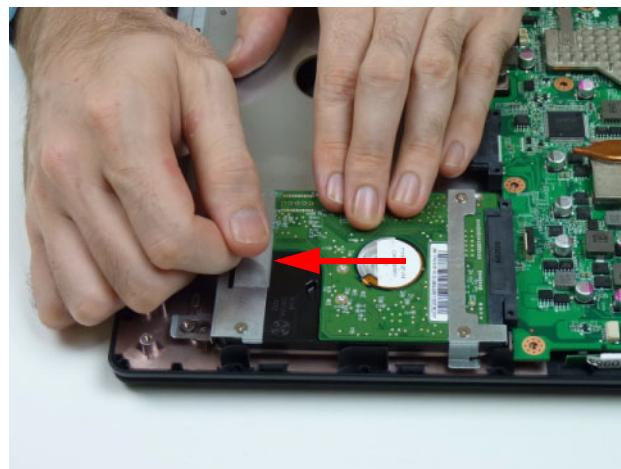
Removing the HDD Module

1. See “Removing the USB Board” on page 62.
2. Remove the one (1) screw securing the HDD module to the mainboard.

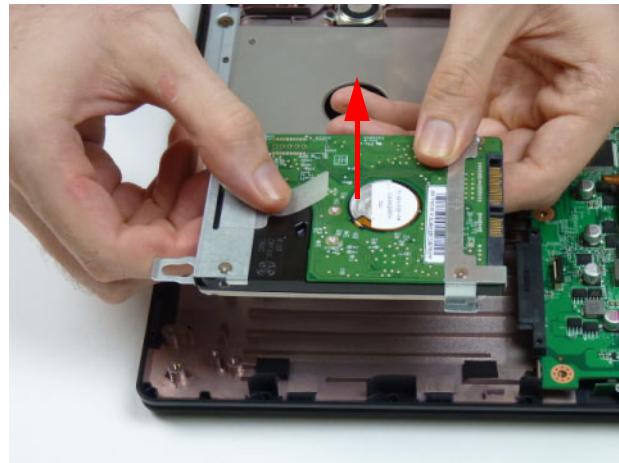


| Step | Size | Quantity | Screw Type |
|------------|-------------|----------|------------|
| HDD Module | M2.5*3.0 Ni | 2 | |

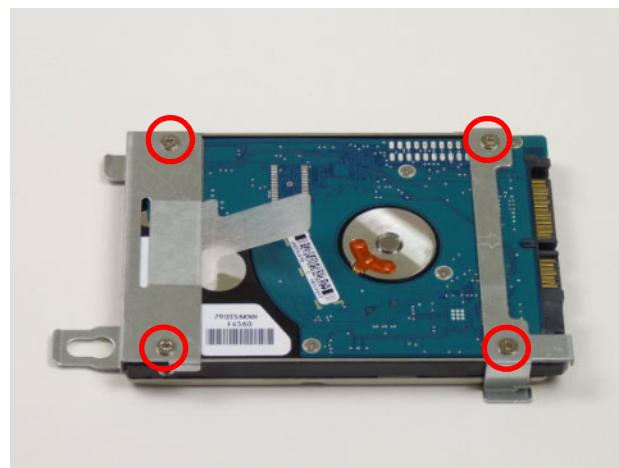
3. Using the pull-tab, slide the HDD module in the direction of the arrow to disconnect the interface.



4. Remove HDD from the bay.

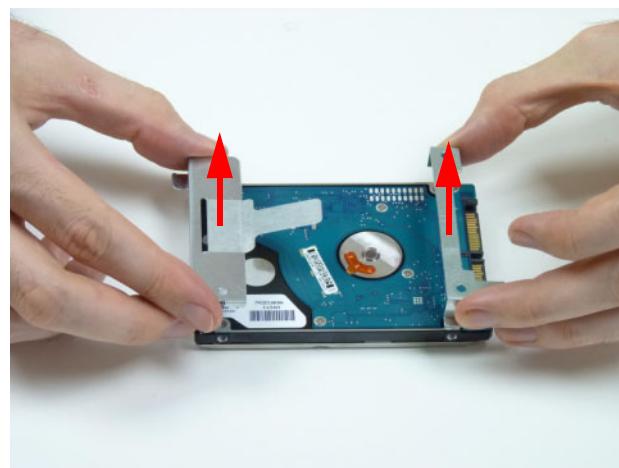


5. Remove the four (4) screws from the carrier.



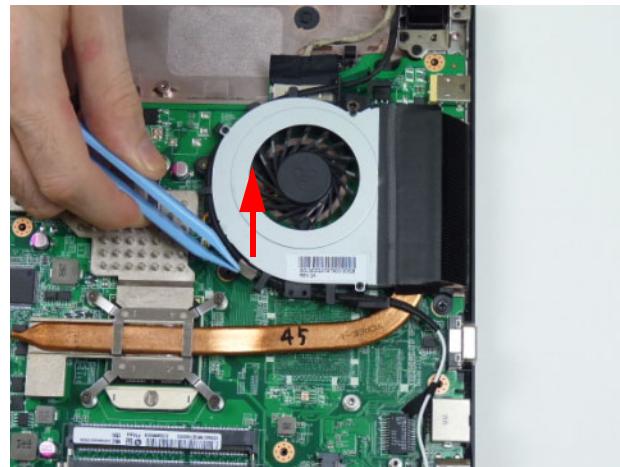
| Step | Size | Quantity | Screw Type |
|-------------------------|-------------|----------|------------|
| HDD Carrier Disassembly | M2.5*3.0 Ni | 4 | |

6. Remove the carrier from the HDD.

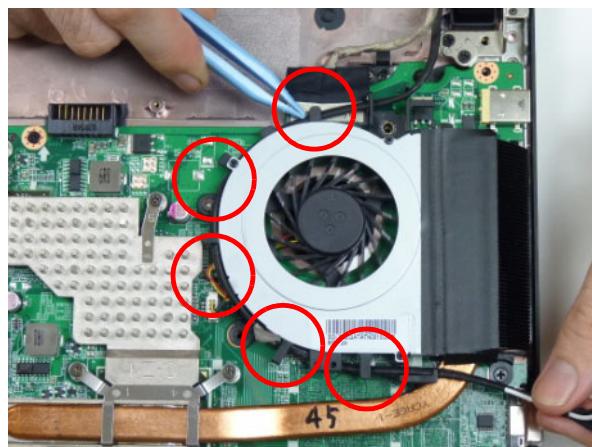


Removing the LCD Module

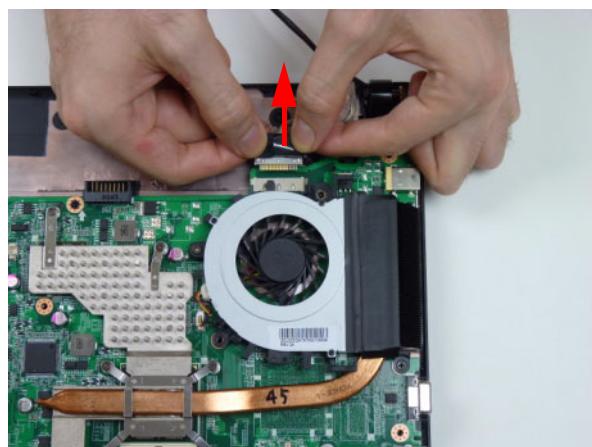
1. See “Removing the WLAN Module” on page 61.
2. Remove the adhesive ground wire from the fan housing.



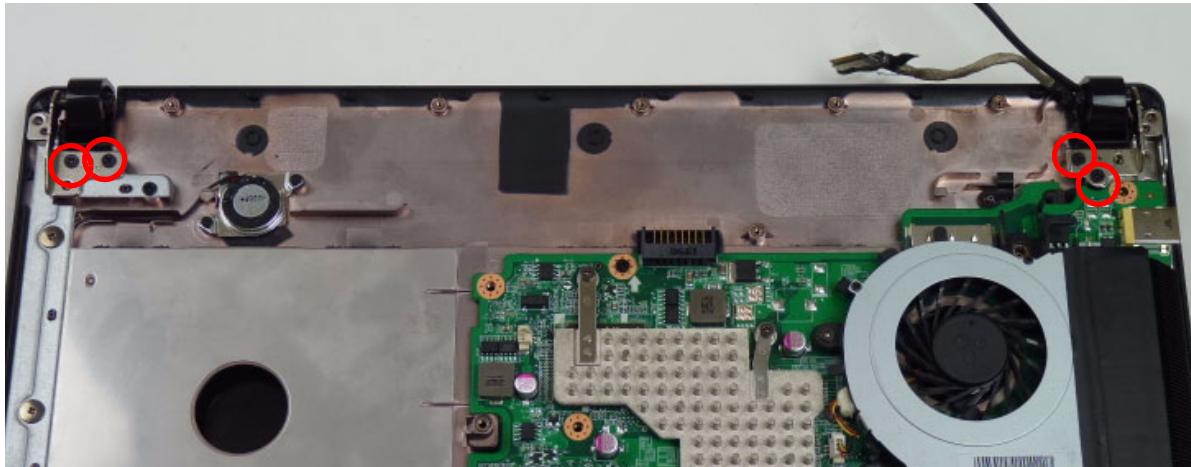
3. Remove the WLAN antennas from the cable guides.



4. Unlock and disconnect the LVDS cable.

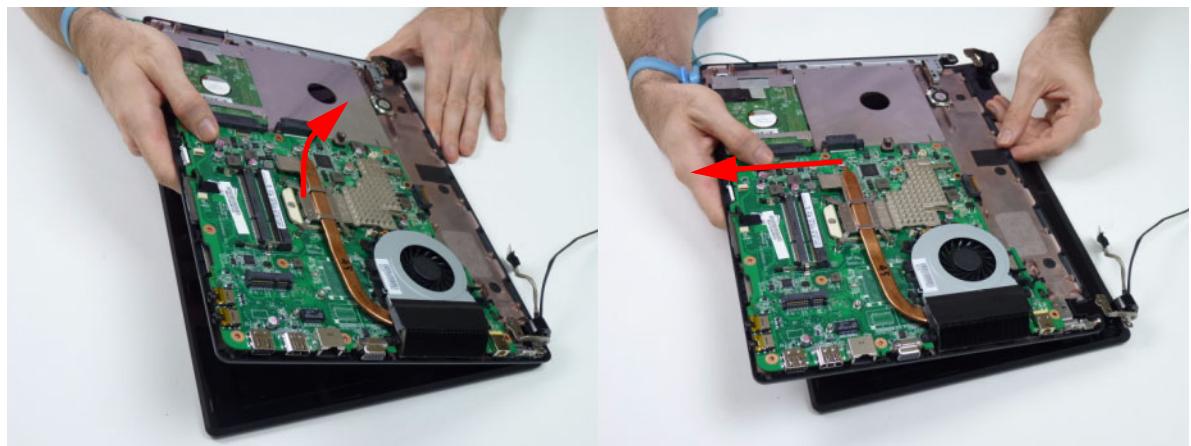


5. Remove the four (4) screws from the left and right hinges.



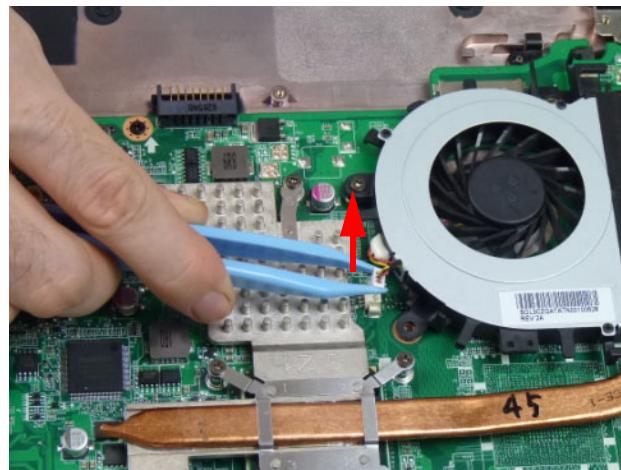
| Step | Size | Quantity | Screw Type |
|------------------------|----------|----------|---|
| LCD Module Disassembly | M2.5*6.0 | 4 |  |

6. Tilt the upper cover upwards slightly and separate it from the LCD module.

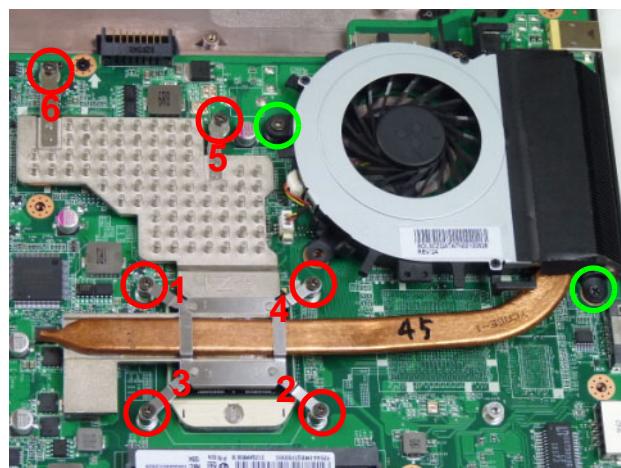


Removing the Thermal Module

1. See “Removing the LCD Module” on page 68.
2. Disconnect the fan cable as shown.

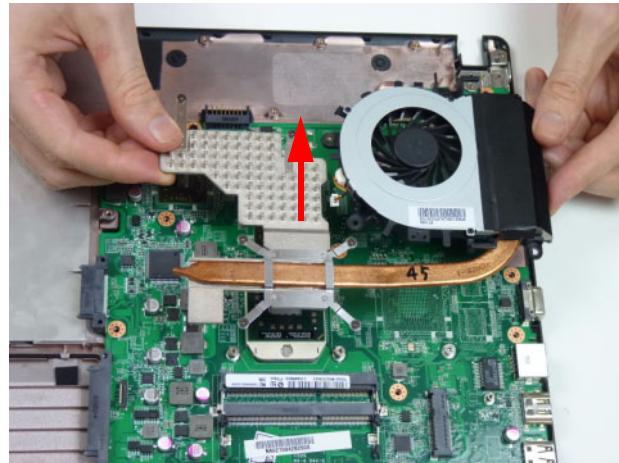


3. Loosen the six (6) captive screws (in numerical order from 1 to 6) and remove the two (2) screws from the fan module.



| Step | Size | Quantity | Screw Type |
|----------------------------|-----------------------------|----------|------------|
| Thermal Module Disassembly | M2.5*5.0 Ni (green callout) | 2 | |

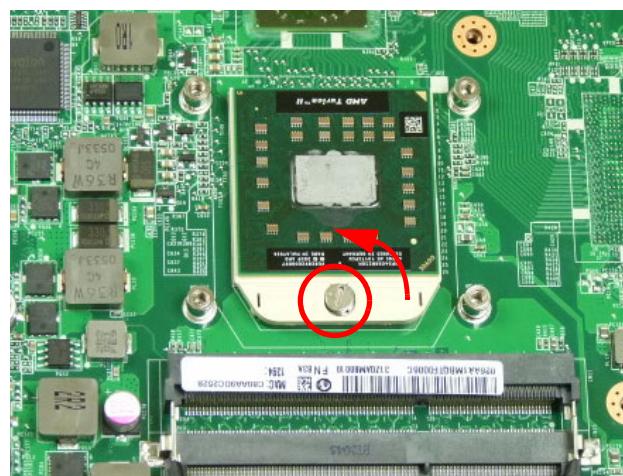
4. Carefully lift up the thermal module assembly and remove it from the mainboard.



IMPORTANT: Place the thermal module on a clean, dry surface when it is not installed.

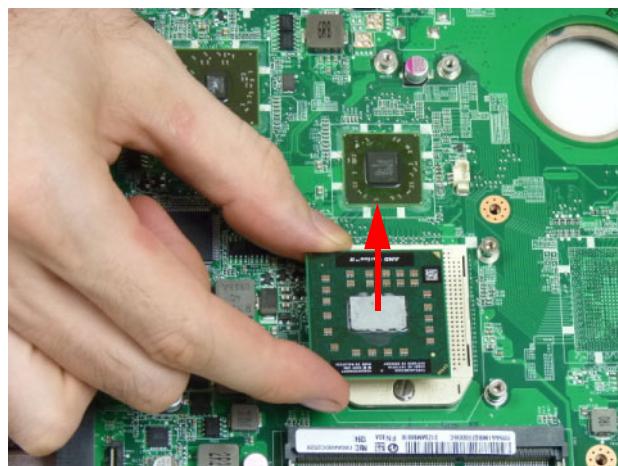
Removing the CPU

1. See “Removing the Thermal Module” on page 70.
2. Using a slotted screw driver, rotate the CPU locking screw 90° counter-clockwise as shown.



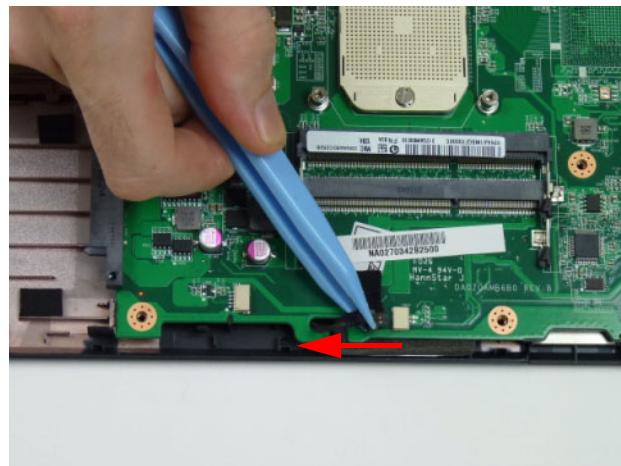
3. Carefully lift the CPU clear of the socket.

IMPORTANT: Place the CPU on a clean, dry surface when it is not installed.

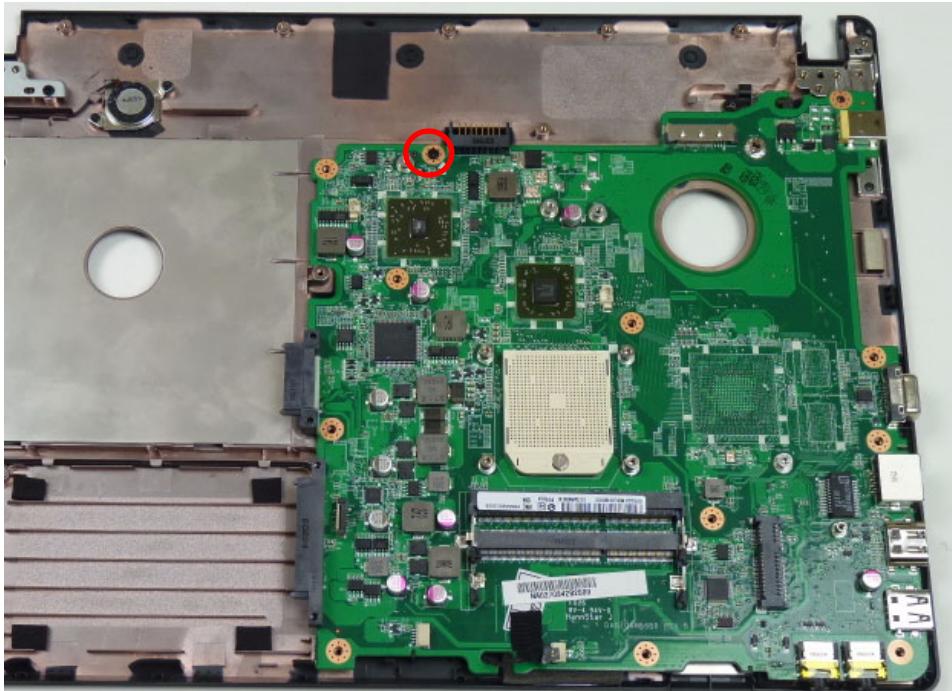


Removing the Mainboard

1. See “Removing the CPU” on page 72.
2. Disconnect the speaker cable from the mainboard connector.

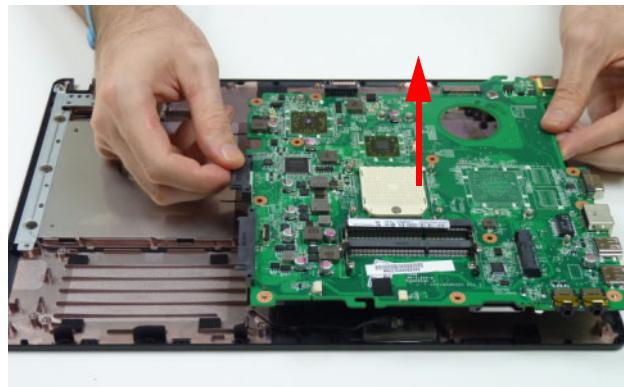


3. Remove the one (1) securing screw from the mainboard.



| Step | Size | Quantity | Screw Type |
|-----------------------|-------------|----------|------------|
| Mainboard Disassembly | M2.5*5.0 Ni | 2 | |

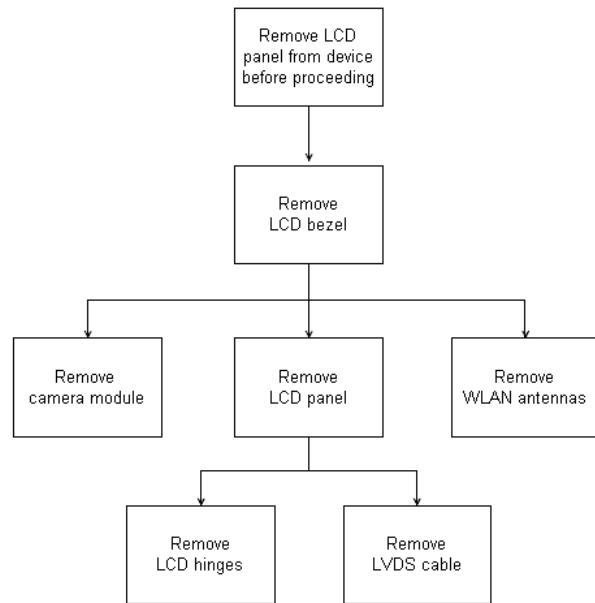
4. Lift the mainboard away the lower cover.



NOTE: The mainboard has been highlighted with a yellow callout in the previous image. Please detach the mainboard and follow local regulations for disposal.

LCD Module Disassembly Process

LCD Module Disassembly Flowchart



Screw List

| Step | Screw | Quantity | Part No. |
|-----------------------|------------|----------|--------------|
| LCD Bezel Disassembly | M2.5*5-I | 2 | 86.T23V7.010 |
| LCD Panel Disassembly | M2.0*3.0-I | 6 | 86.ARE07.002 |
| LCD Hinge Disassembly | M2.5*4.0-I | 6 | 86.R6Z07.001 |

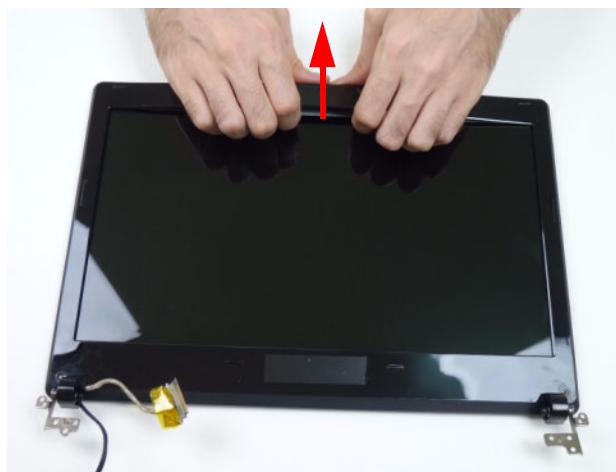
Removing the LCD Bezel

1. See “Removing the LCD Module” on page 68.
2. Remove the two (2) bezel screws from the LCD module.



| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| LCD Bezel Disassembly | M2.5*2.0 | 2 |  |

3. Pry the bezel upwards at the top of the LCD module releasing it from the latches.



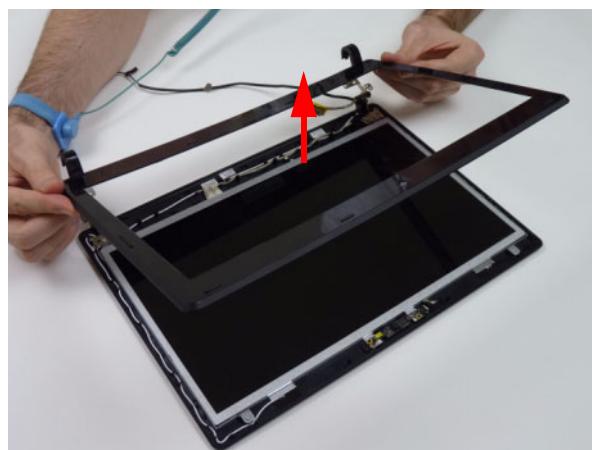
4. Continue separating the latches along the sides of the bezel towards the hinges.



5. Release the latches at the bottom of the LCD bezel.

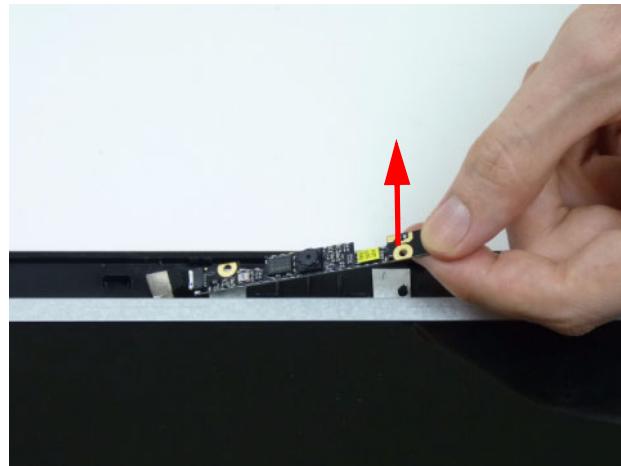


6. Lift the Bezel clear of the LCD module.

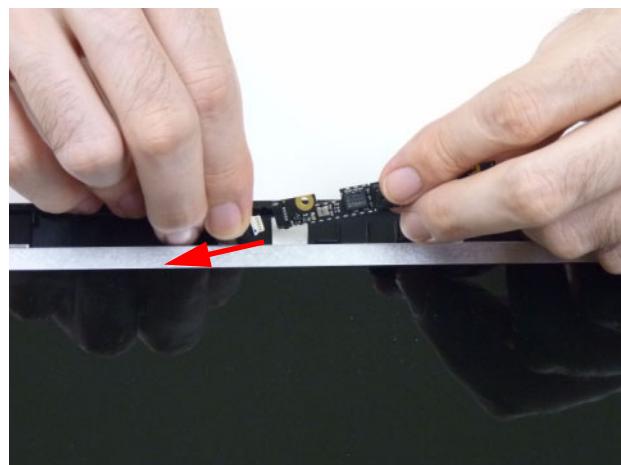


Removing the Camera Module

1. See “Removing the LCD Bezel” on page 76.
2. Lift the camera module from the LCD cover.



3. Disconnect the cable as shown.



NOTE: Take care not to damage the cable.

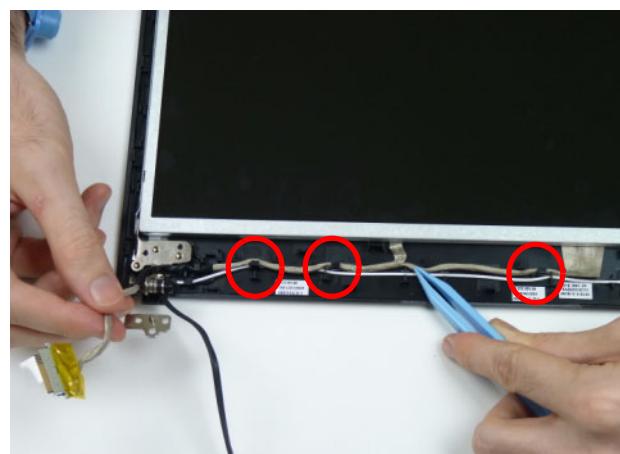
Removing the LCD Panel

1. See “Removing the LCD Bezel” on page 76.
2. Remove the six (6) securing screws from the LCD panel.



| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| LCD Panel Disassembly | M2.0*3.0 | 6 |  |

3. Remove the LVDS cable from the cable guides.



4. Lift the LCD panel clear of the LCD cover as shown.



Remove the LCD Hinges

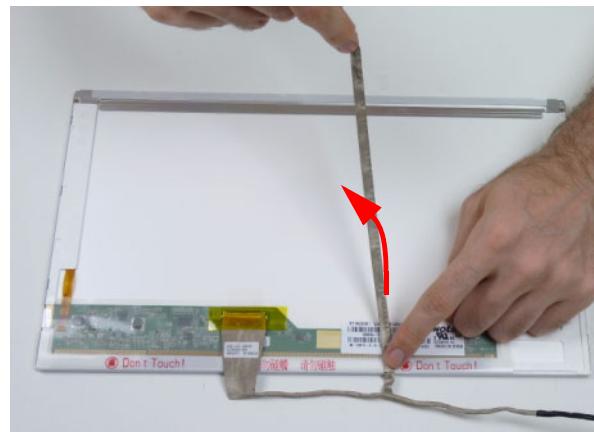
1. See "Removing the LCD Panel" on page 79.
2. Remove the four (4) screws, 2 on each side. Separate the hinges from the LCD panel.



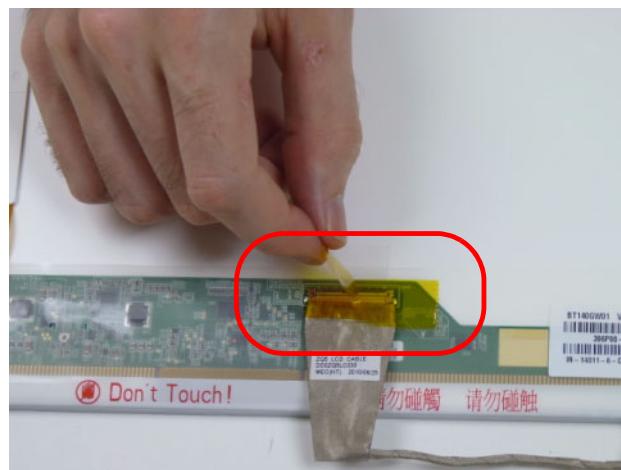
| Step | Size | Quantity | Screw Type |
|-----------------------|--------|----------|------------|
| LCD Hinge Disassembly | M2*2.0 | 4 | |

Removing the LVDS Cable

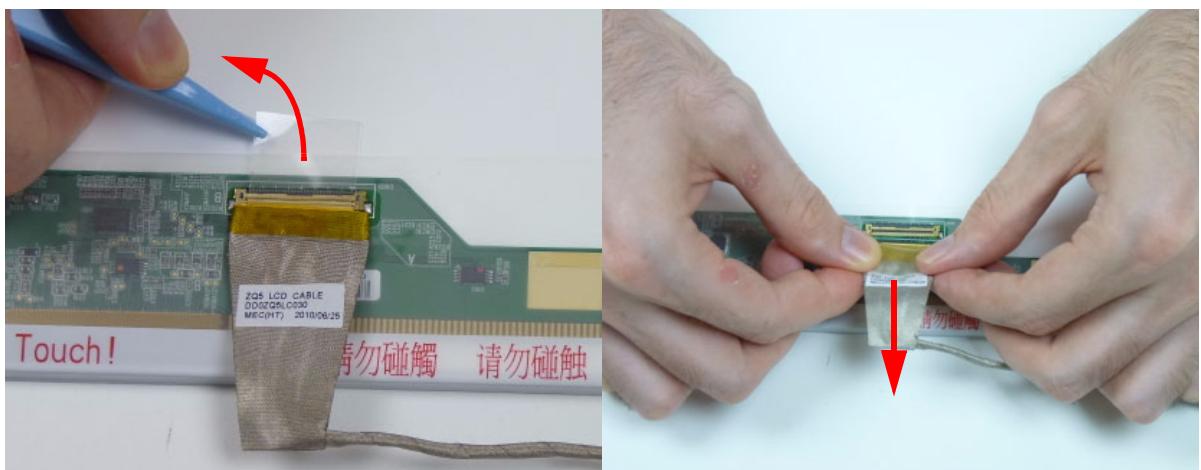
1. See “Removing the LCD Panel” on page 79.
2. Detach the camera cable from the back of the LCD panel.



3. Remove the yellow tape securing the LVDS cable.

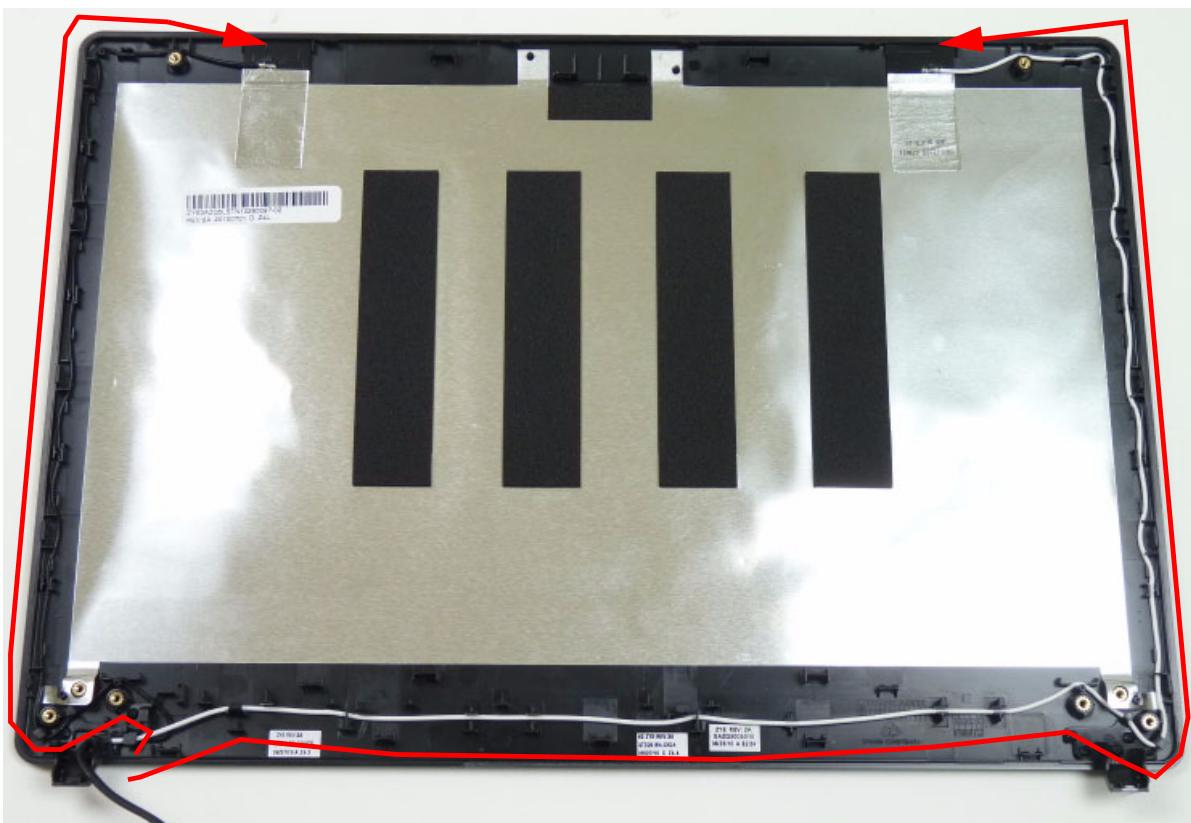


4. Starting from the top, remove the clear mylar covering and disconnect the LVDS cable from the LCD panel.

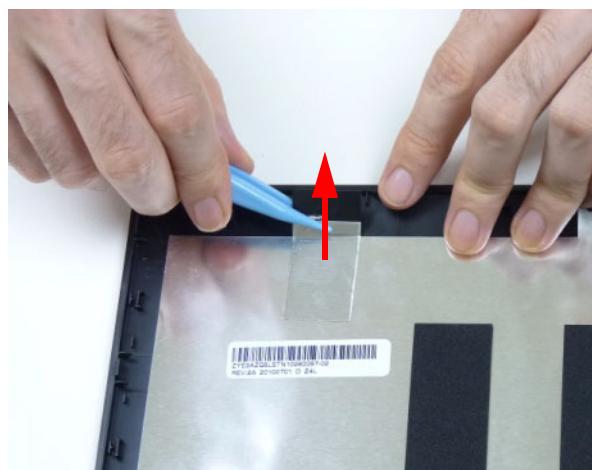


Removing the WLAN Antennas

1. See "Removing the LCD Panel" on page 79.
2. Remove the black and white WLAN antennas from the cable guides.



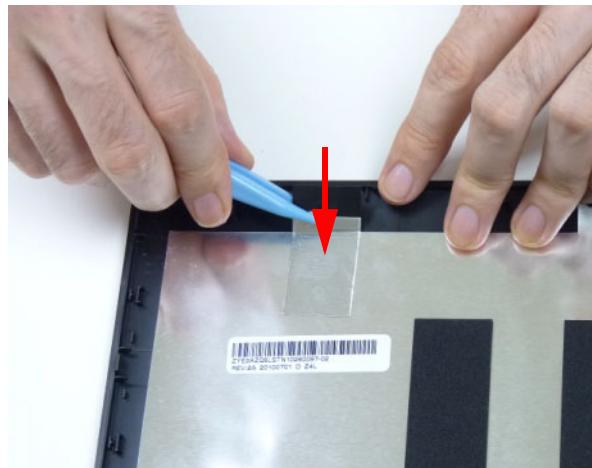
3. Remove the black antenna cable from the LCD cover. Repeat for the white antenna.



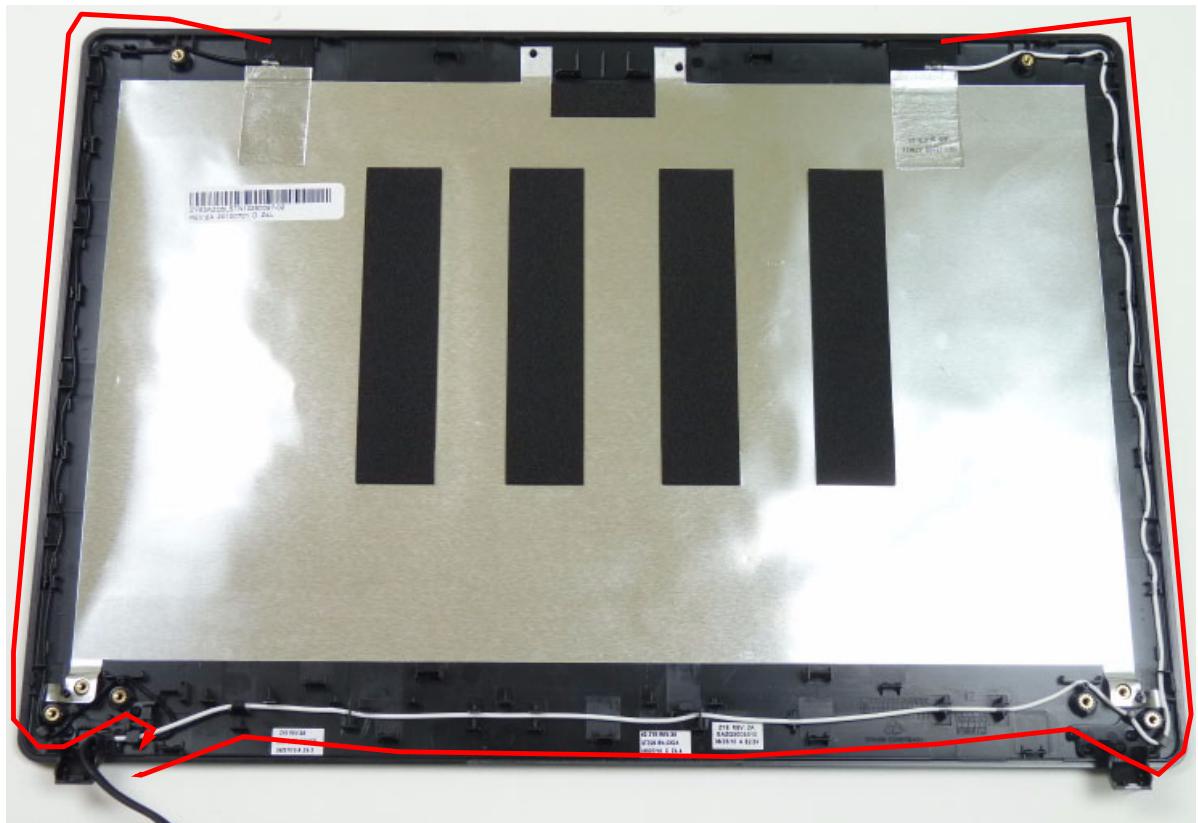
LCD Module Assembly Process

Replacing the WLAN Antennas

1. Place the black antenna cable onto the LCD cover as shown. Repeat for the white antenna.



2. Place the black and white WLAN antennas into the cable guides as shown.

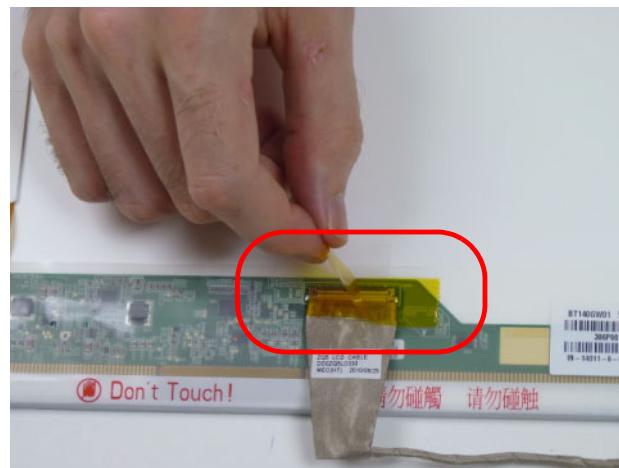


Replacing the LVDS Cable

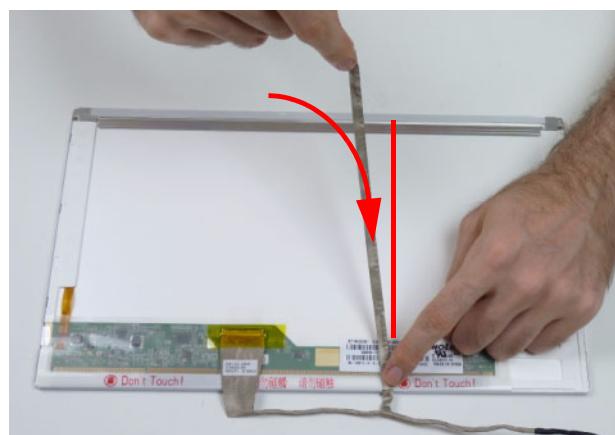
1. Turn the LCD panel face down on a non-abrasive, clean surface. Ensure the panel face does not get damaged. Connect the LVDS cable to the LCD panel. Place the clear mylar tape over the connector and press firmly.



2. Replace the yellow adhesive tape to secure the LVDS cable.



3. Adhere the camera cable to the LCD panel.



NOTE: Ensure the camera cable is placed as shown to prevent damage to the camera.

Replacing the LCD Hinges

1. See “Removing the LCD Panel” on page 79.
2. Replace the four (4) screws, 2 on each side to secure the hinges.



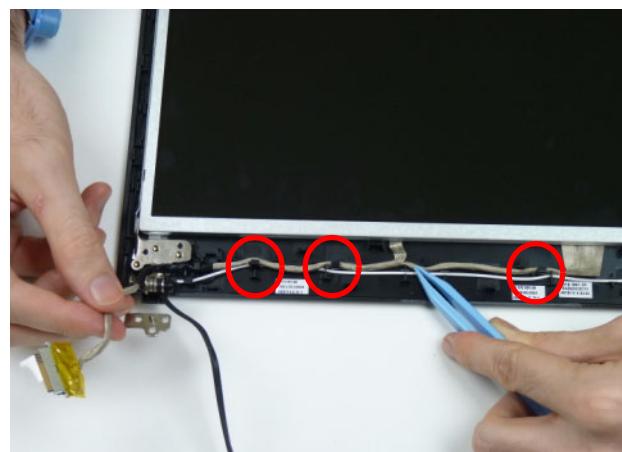
| Step | Size | Quantity | Screw Type |
|-----------------------|--------|----------|---|
| LCD Hinge Disassembly | M2*2.0 | 4 |  |

Removing the LCD Panel

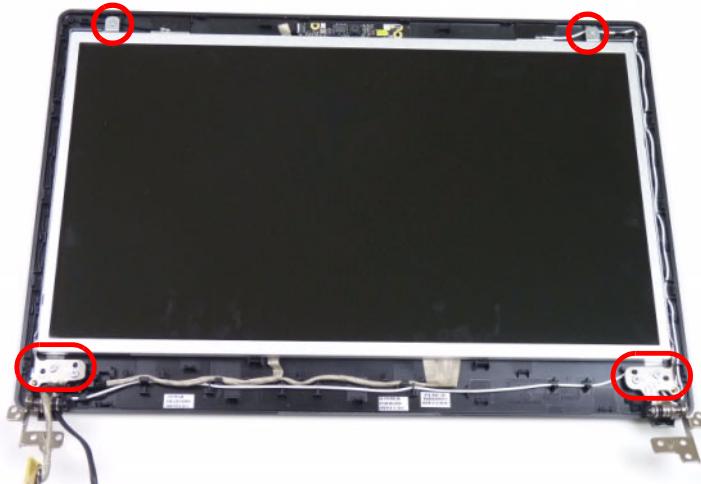
1. Place the LCD panel on the LCD cover as shown.



2. Place the LVDS cable into the cable guides.



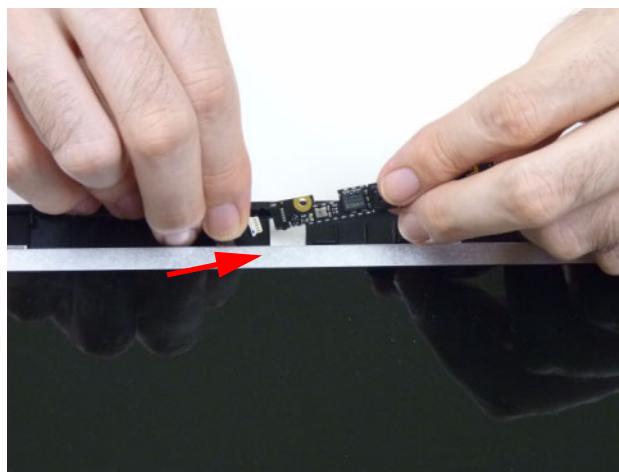
3. Replace the six (6) securing screws to secure the LCD panel.



| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| LCD Panel Disassembly | M2.0*3.0 | 6 |  |

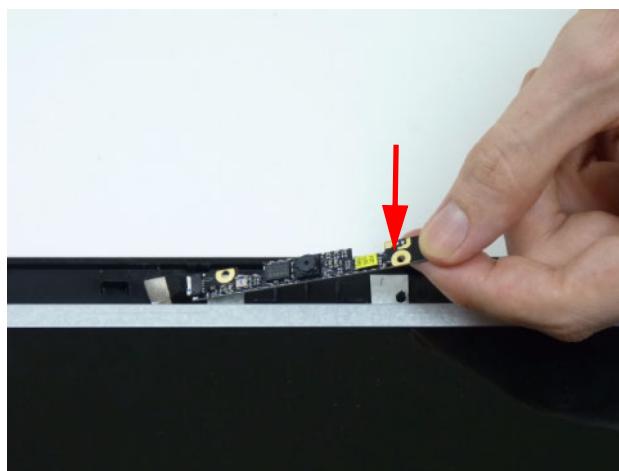
Replacing the Camera Module

1. Connect the camera cable as shown.



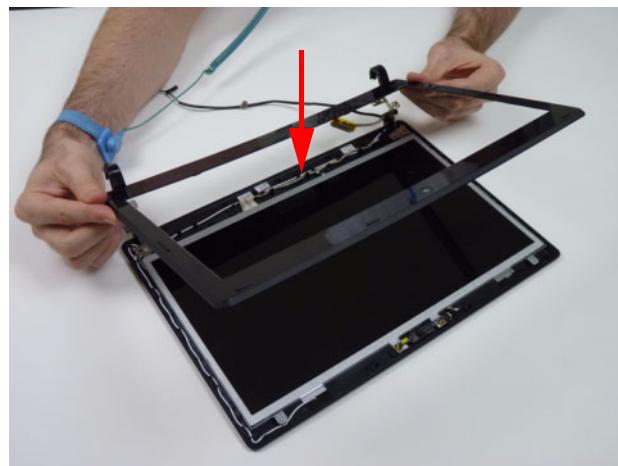
NOTE: Take care not to damage the cable.

2. Place the camera module onto the LCD cover. Apply gentle pressure to fix the adhesive.

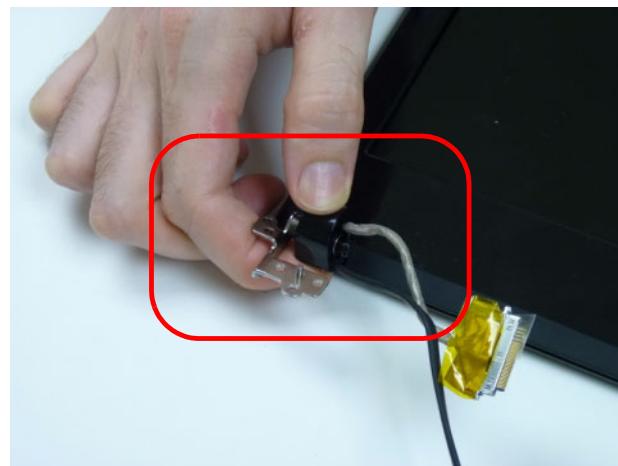


Replacing the LCD Bezel

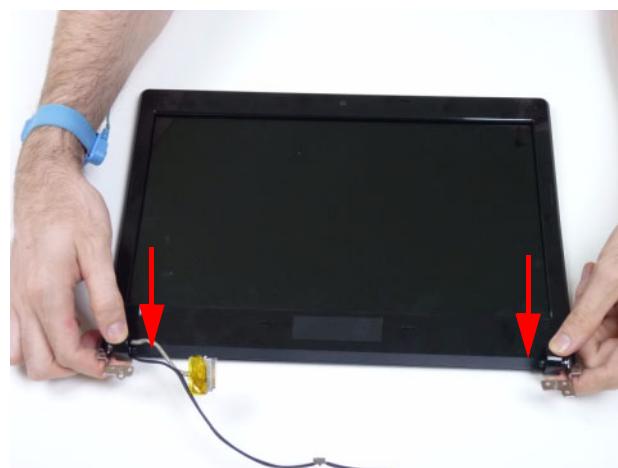
1. Place the bezel hinge covers over the hinges.



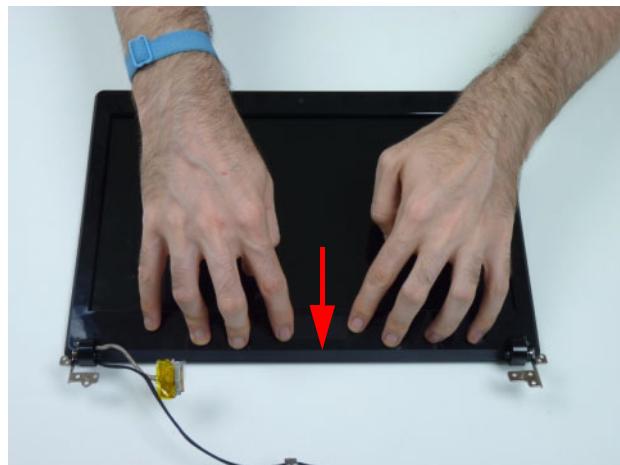
2. Ensure the LVDS and WLAN antenna cable bundle are exiting the left hinge as shown.



3. Apply pressure to snap the latches together.



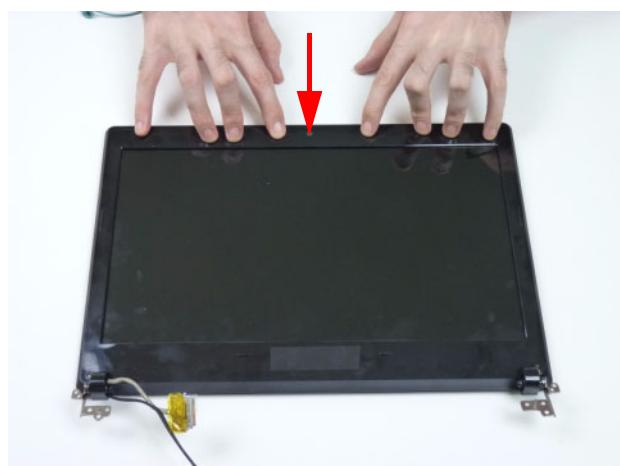
4. Apply pressure along the bottom of the bezel to attach the latches.



5. Apply pressure along the sides of the bezel to attach the latches.



6. Apply pressure along the top of the bezel to attach the latches.



7. Replace the two (2) bezel screws.

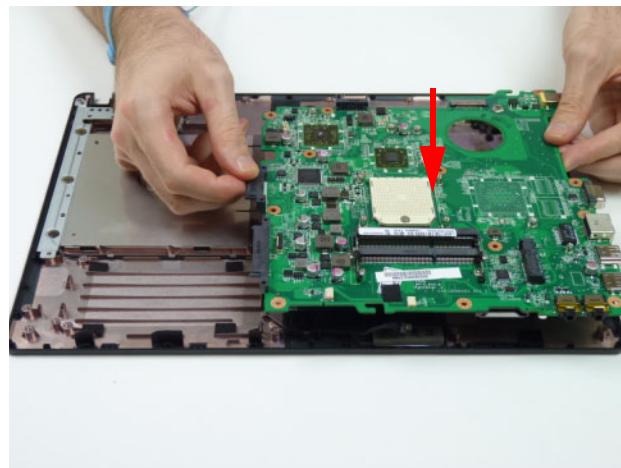


| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| LCD Bezel Disassembly | M2.5*2.0 | 2 |  |

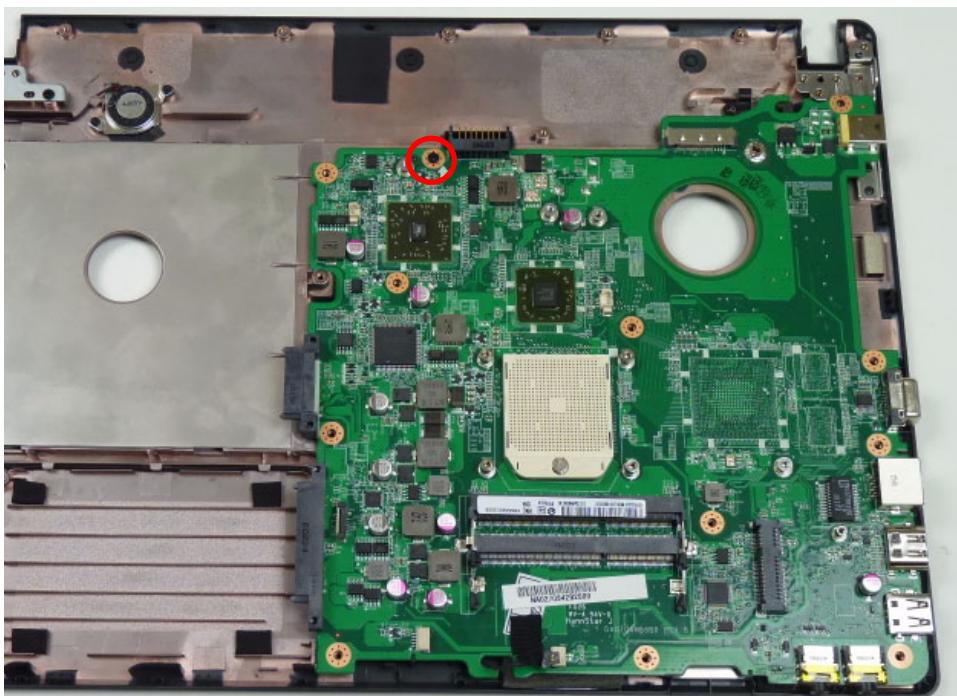
Main Unit Assembly Process

Replacing the Mainboard

1. Place the mainboard onto the upper cover as shown.

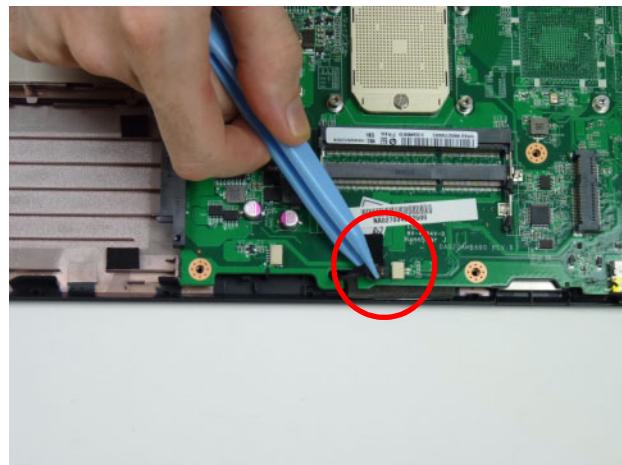


2. Replace the one (1) screw to secure the mainboard to the upper cover.



| Step | Size | Quantity | Screw Type |
|-----------------------|-------------|----------|------------|
| Mainboard Disassembly | M2.5*5.0 Ni | 2 | |

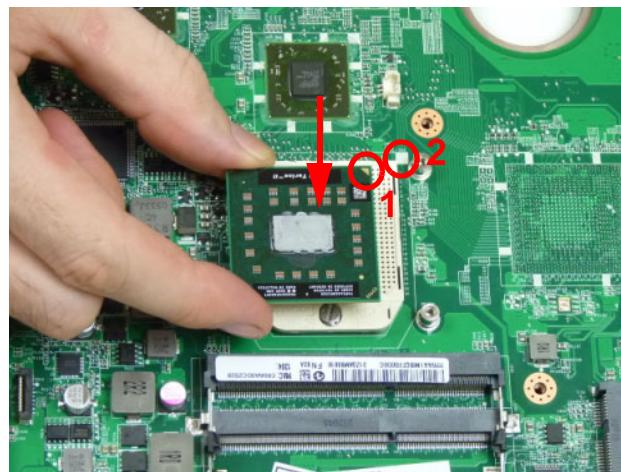
3. Connect the speaker cable to the mainboard.



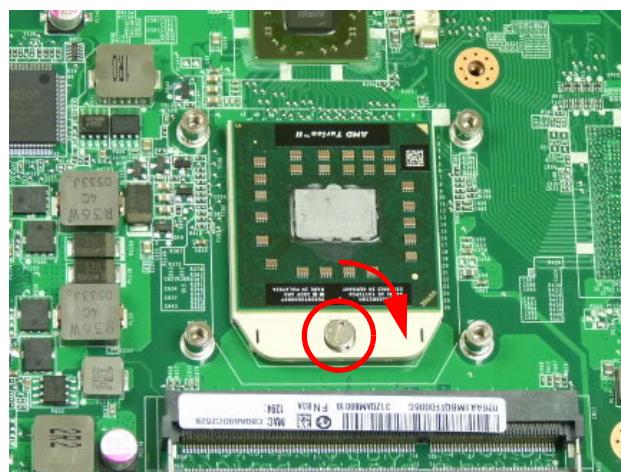
Replacing the CPU

IMPORTANT: The CPU has a Pin1 locator (1) that must be positioned corresponding to the marker (2) on the CPU socket.

1. Place the CPU into the CPU socket as shown, taking note of the Pin1 locator.



2. Using a slotted screw driver, rotate the CPU locking screw 90° clockwise as shown to secure it in the package.



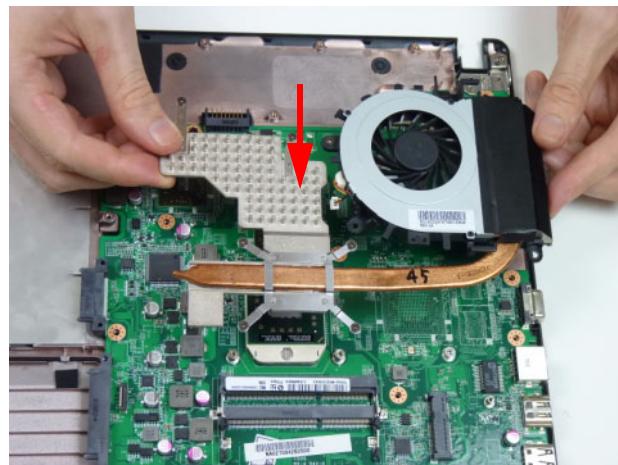
Replacing the Thermal Module

IMPORTANT: Apply suitable thermal pads before replacing the thermal module

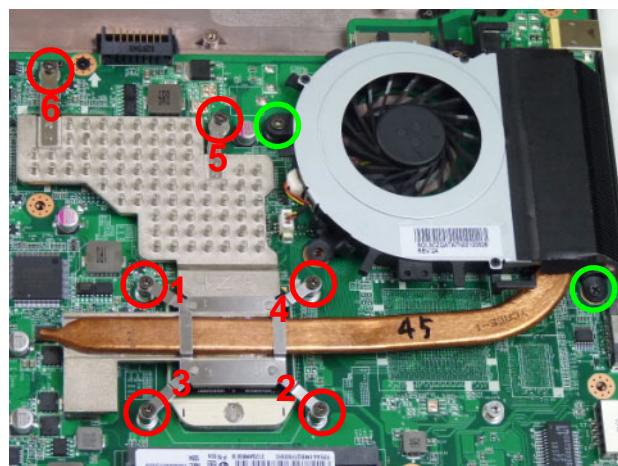
The following thermal materials are approved for use:

- Thermal grease compound
- Eapus PSX-D
- Thermal pad
- Denka FSL-BS B6

1. Remove all traces of thermal material from the CPU and thermal module using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply a new thermal pad or grease to the center of the processor(s) coming into contact with the thermal module.
3. Align the screw holes on the thermal module to the screw posts on the mainboard, then replace the module. Keep the module as level as possible when replacing.

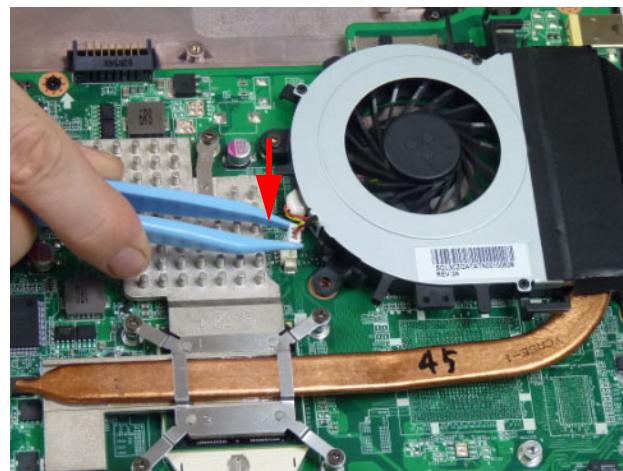


4. Tighten the five (5) captive screws (in numerical order from 1 to 5) and replace the one (1) screw to secure the CPU thermal module.



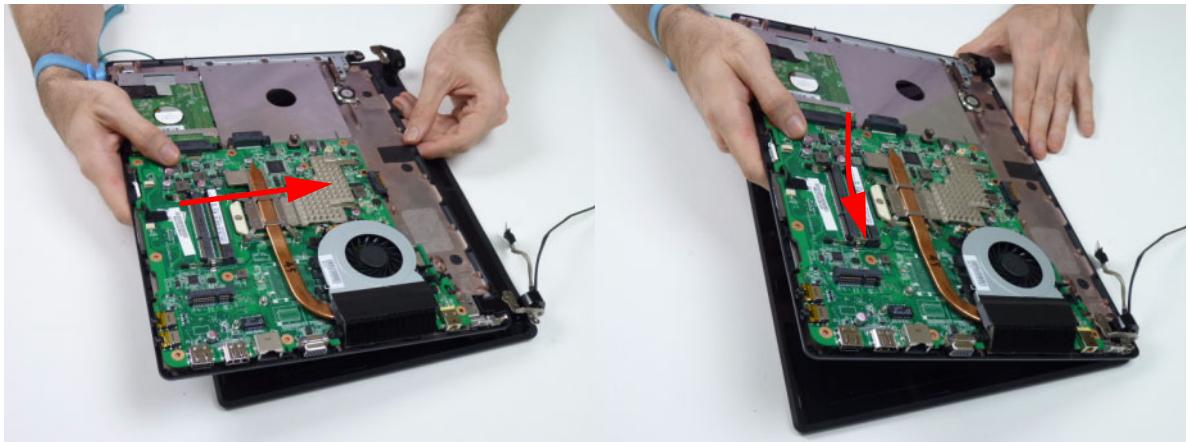
| Step | Size | Quantity | Screw Type |
|----------------------------|-----------------------------|----------|------------|
| Thermal Module Disassembly | M2.5*5.0 Ni (green callout) | 2 | |

5. Connect the fan cable as shown.



Replacing the LCD Module

1. Place the upper cover onto the LCD module and lower into place. Lower the hinges so they are flush with the hinge plates on the upper cover.

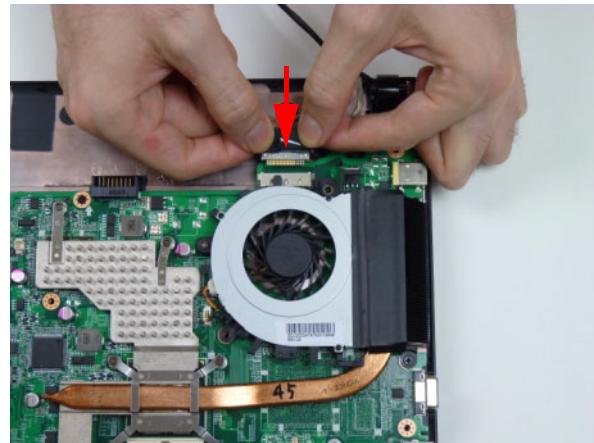


2. Replace the four (4) screws to secure the left and right hinges.

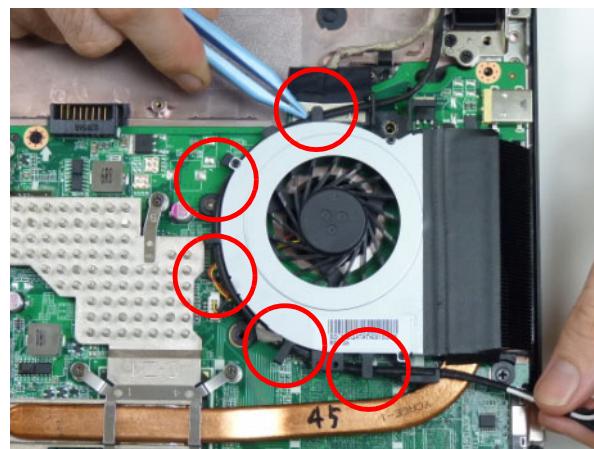


| Step | Size | Quantity | Screw Type |
|------------------------|----------|----------|------------|
| LCD Module Disassembly | M2.5*6.0 | 4 | |

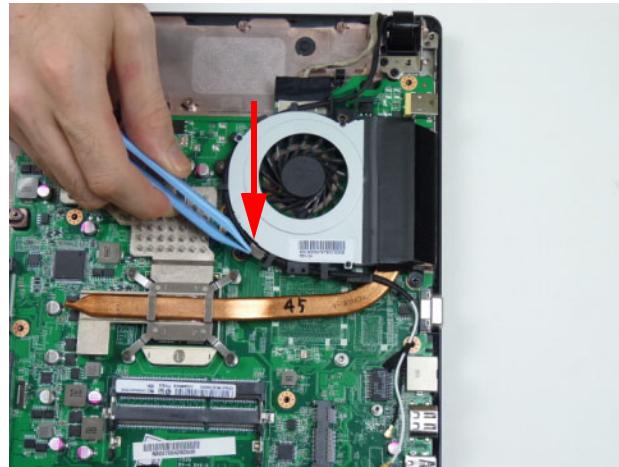
3. Connect and lock the LVDS cable.



4. Place the WLAN antenna bundle into the cable guides around the fan module.

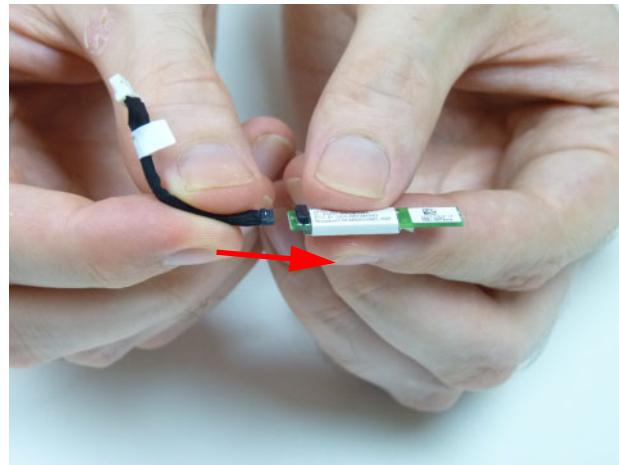


5. Place the adhesive ground wire attached to the WLAN antenna cable bundle onto the fan housing.

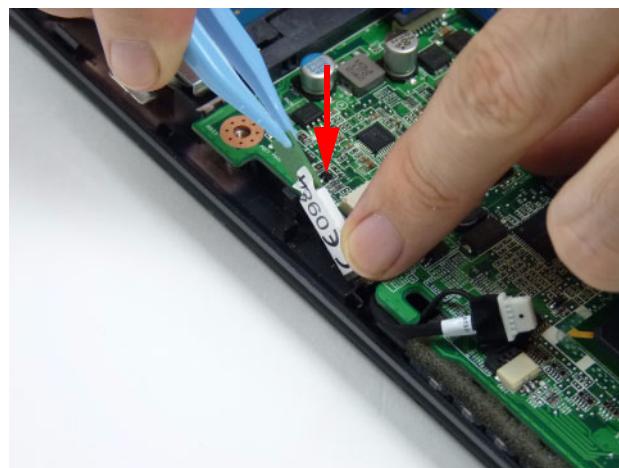


Replacing the Bluetooth Module

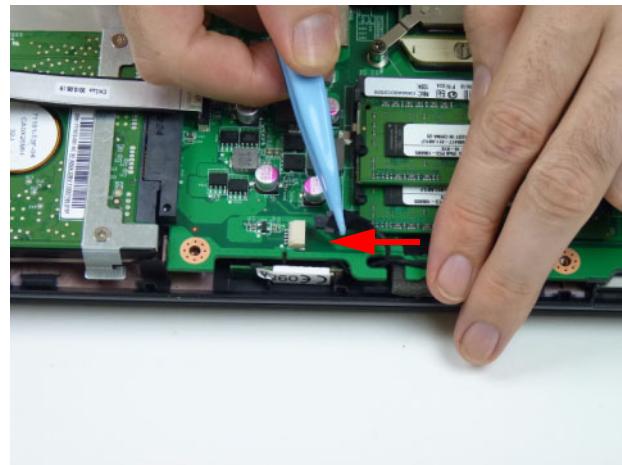
1. Connect the Bluetooth cable to the Bluetooth board.



2. Place the connector edge of Bluetooth board into the guides as shown and then place the other end down onto the upper cover.

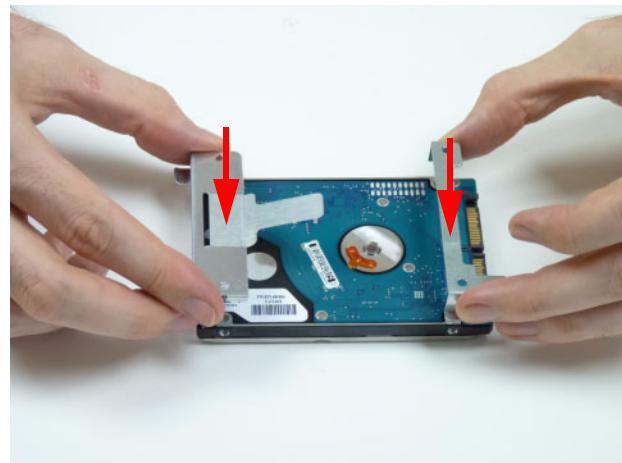


3. Connect the Bluetooth cable to the mainboard connector.

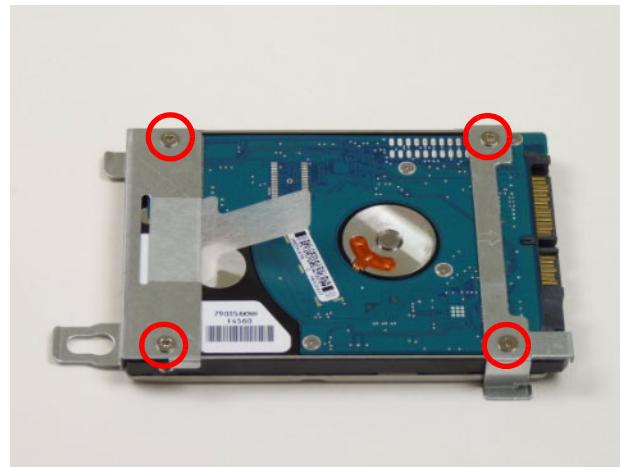


Replacing the HDD Module

1. Place the carrier onto the HDD.

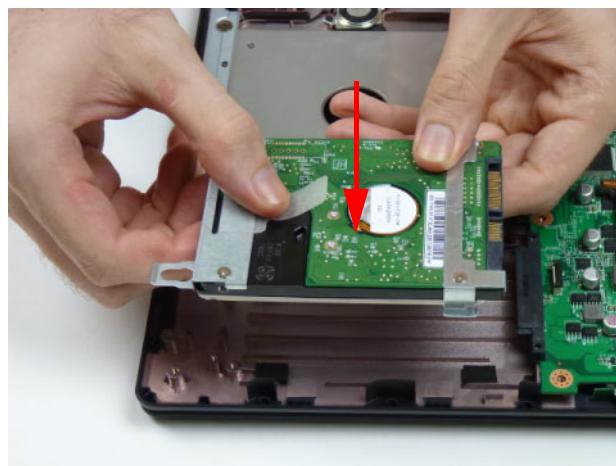


2. Replace the four (4) screws to secure the HDD carrier.

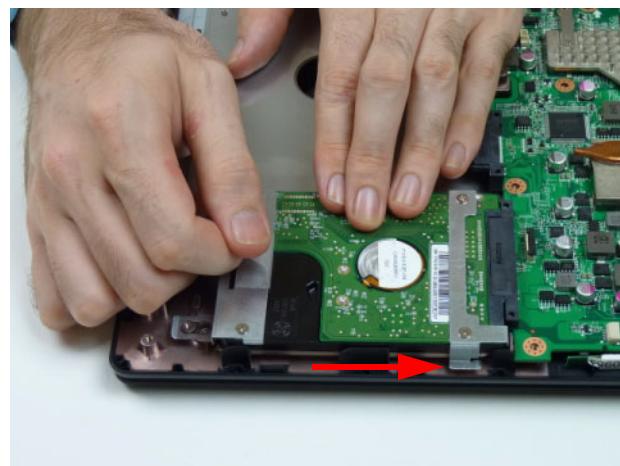


| Step | Size | Quantity | Screw Type |
|-------------------------|-------------|----------|---|
| HDD Carrier Disassembly | M2.5*3.0 Ni | 4 |  |

3. Place HDD in the HDD bay.



4. Using the pull-tab, slide the HDD module in the direction of the arrow to connect the interface.



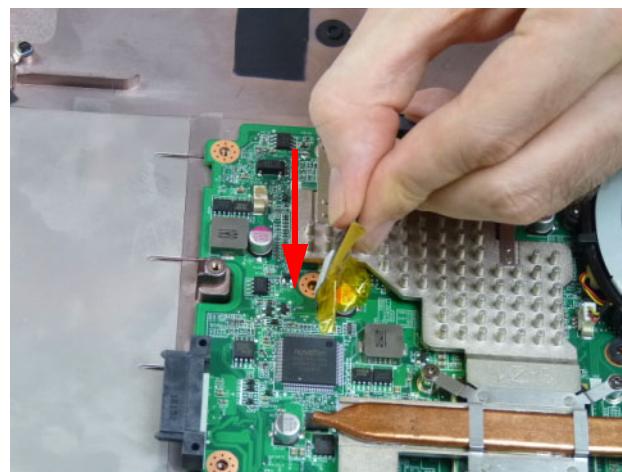
5. Replace the one (1) screw to secure the HDD module to the upper cover.



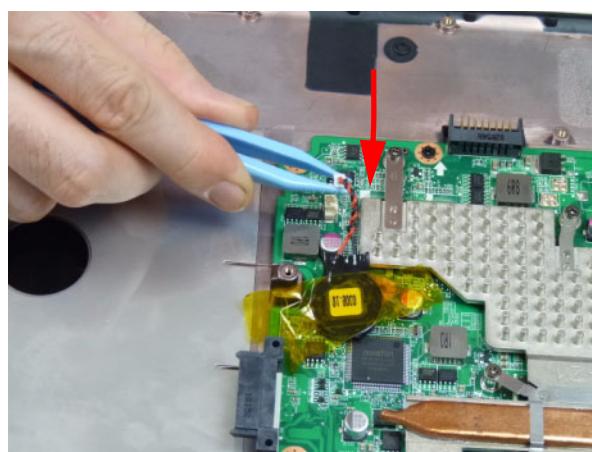
| Step | Size | Quantity | Screw Type |
|------------|-------------|----------|---|
| HDD Module | M2.5*3.0 Ni | 2 |  |

Removing the RTC Battery

1. Place the RTC battery onto the mainboard.



2. Connect the RTC battery cable to the mainboard connector.



Replacing the USB Board

1. Place the USB board onto the chassis.

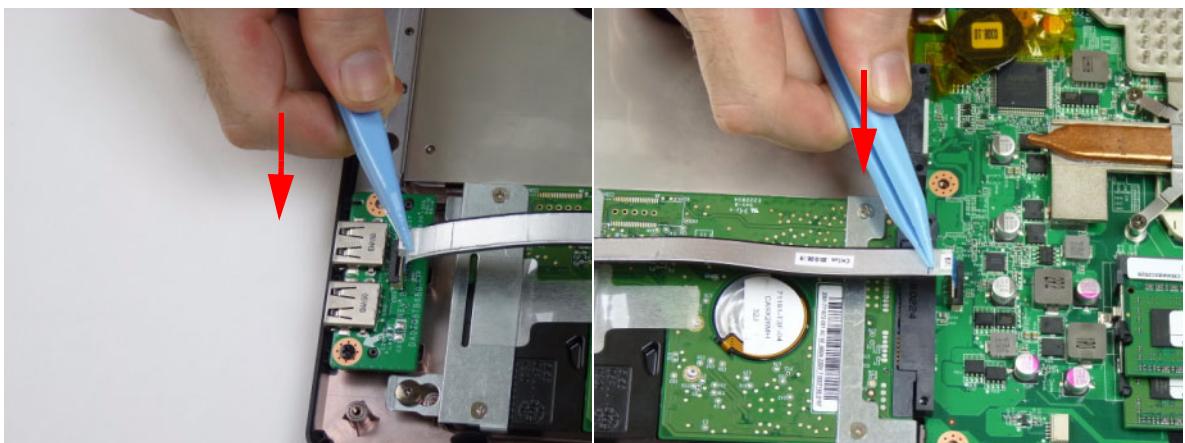


2. Replace one (1) screw to secure the USB board.



| Step | Size | Quantity | Screw Type |
|-----------------------|----------|----------|---|
| USB Board Disassembly | M2.0*2.0 | 1 |  |

3. Connect and lock the USB FFC to the USB board and mainboard connectors.

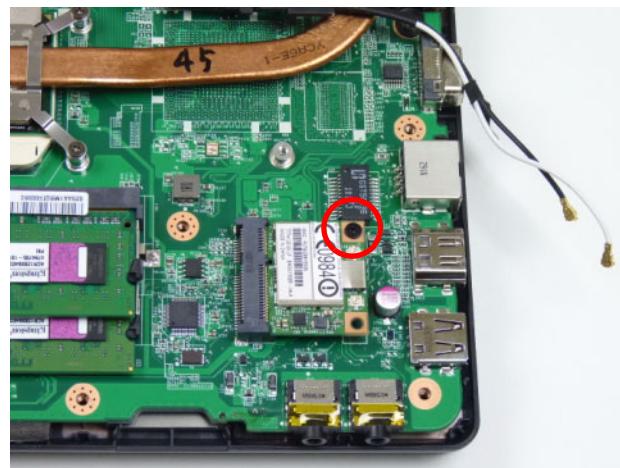


Replacing the WLAN Module

1. Insert the WLAN board into the WLAN socket.



2. Replace the one (1) screw.



| Step | Size | Quantity | Screw Type |
|------------------------|----------|----------|------------|
| WLAN Board Disassembly | M2.0*3.0 | 1 | |

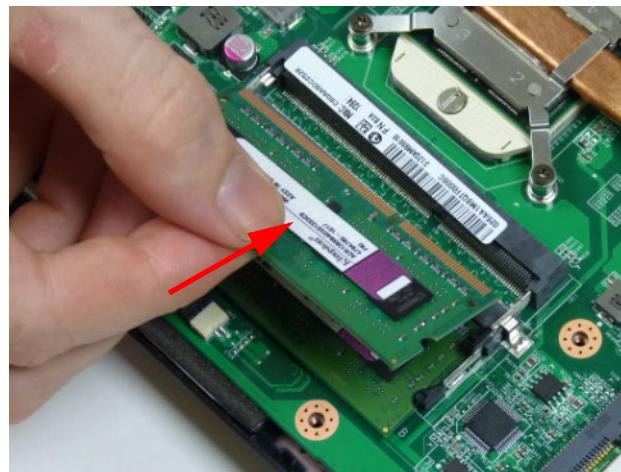
3. Connect the two (2) antenna cables to the WLAN board as shown.



NOTE: Cable placement is as follows: black (Main) to connector J1, white (AUX) to connector J2.

Replacing the DIMM Modules

1. Insert the DIMM module into the DIMM connector.



2. Press down to lock the DIMM module in place.



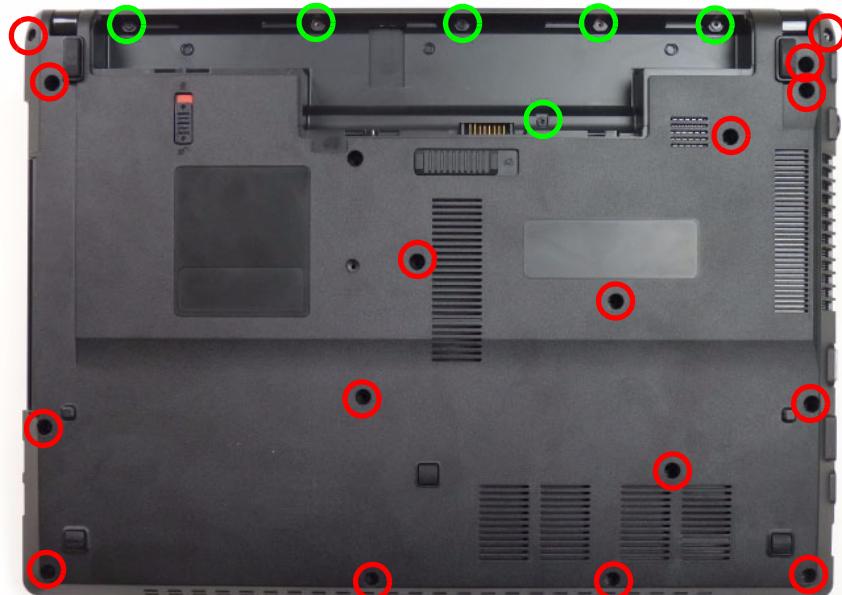
3. Repeat steps 1 and 2 for the second DIMM module if present.

Replacing the Lower Cover

1. Place the lower cover onto the device.



2. Replace the twenty two (22) screws to secure the lower cover to the device.



| Step | Size | Quantity | Screw Type |
|--------------------------------|----------|----------|------------|
| Lower Cover (red callout) | M2.0*6.0 | 16 | |
| Battery Bay (green callout) | M2.0*3.0 | 6 | |

External Module Assembly Process

Replacing the ODD Module

1. Place the ODD bracket onto the ODD module and replace the two (2) screws to secure it.

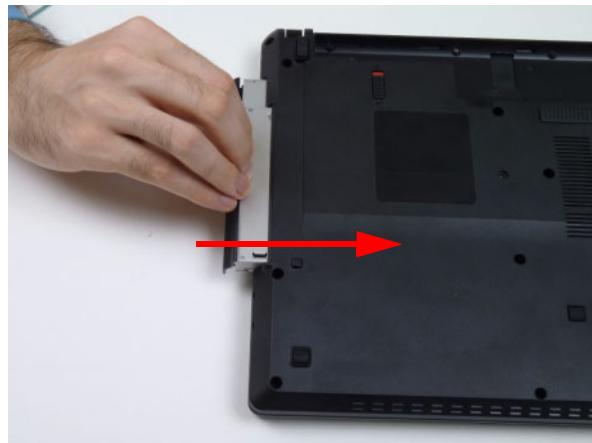


| Step | Size | Quantity | Screw Type |
|-------------------------|----------|----------|------------|
| ODD Bracket Disassembly | M2.0*3.0 | 2 | |

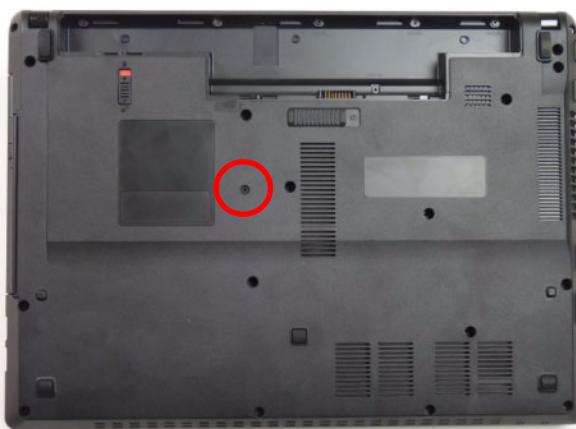
2. Press the bezel into the tray, bottom edge first, to secure it to the ODD module.



3. Push the ODD module into the ODD bay until it is flush with the casing.



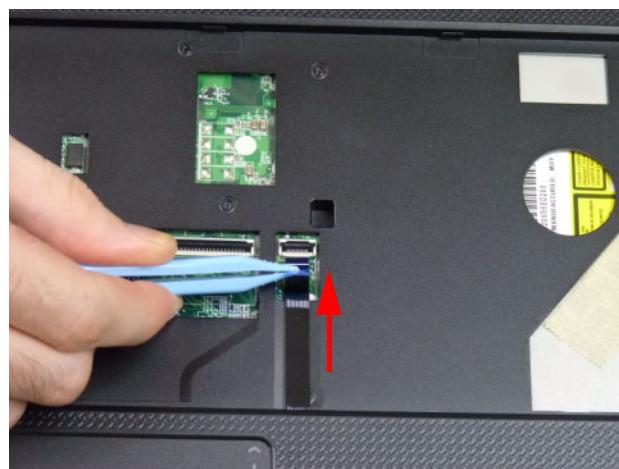
4. Replace the one (1) screw to secure the module.



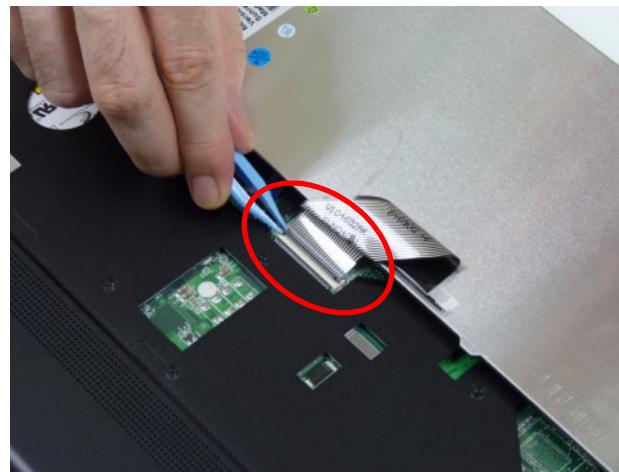
| Step | Size | Quantity | Screw Type |
|-------------------------|----------|----------|---|
| ODD Bracket Disassembly | M2.0*3.0 | 2 |  |

Replacing the Keyboard

1. Connect and lock the Touchpad FFC to the mainboard connector.



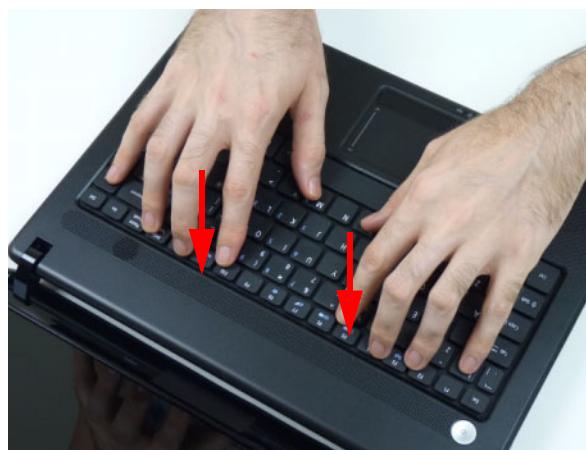
2. Place the keyboard face down on the upper cover. Connect the keyboard FPC to the mainboard and secure the locking latch.



3. Turn the keyboard over and slide the front edge into the upper cover, ensuring that the four locating tabs are correctly seated.



4. Press down as indicated to secure the keyboard in place.



Replacing the SD dummy card

1. Insert the SD dummy card into the slot and push until the card clicks into place and is flush with the casing.

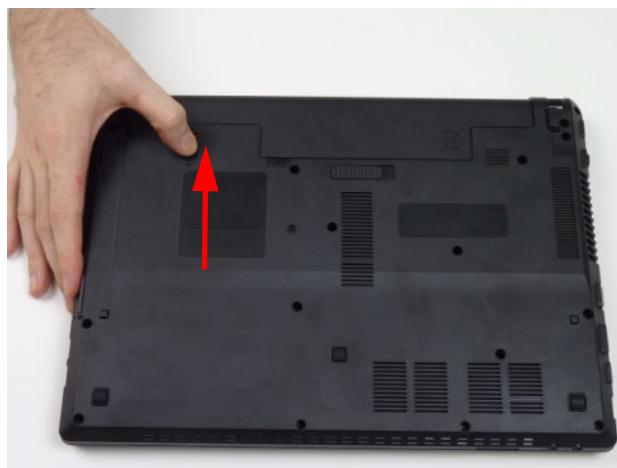


Replacing the Battery Pack

1. Insert the battery pack and press down.



2. Slide the battery lock in the direction shown to secure the battery in place.



Troubleshooting

Common Problems

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Gateway products. Non-Gateway products, prototype cards, or modified options can give false errors and invalid system responses.

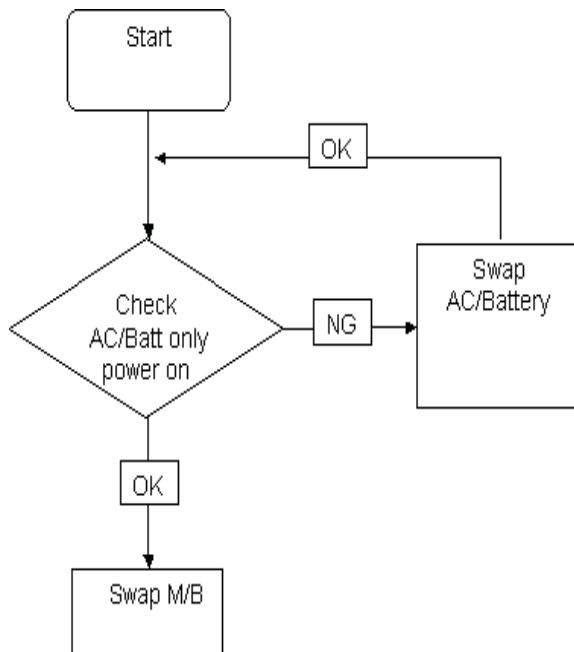
1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

| Symptoms (Verified) | Go To |
|---------------------------|----------|
| Power On Issue | Page 114 |
| No Display Issue | Page 115 |
| LCD Failure | Page 117 |
| Internal Keyboard Failure | Page 117 |
| Touchpad Failure | Page 118 |
| Internal Speaker Failure | Page 118 |
| ODD Failure | Page 121 |
| WLAN Failure | Page 124 |
| Thermal Unit Failure | Page 124 |
| Other Functions Failure | Page 125 |
| Intermittent Failures | Page 126 |
| Undermined Failures | Page 126 |

4. If the Issue is still not resolved, see "Online Support Information" on page 165.

Power On Issue

If the system doesn't power on, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



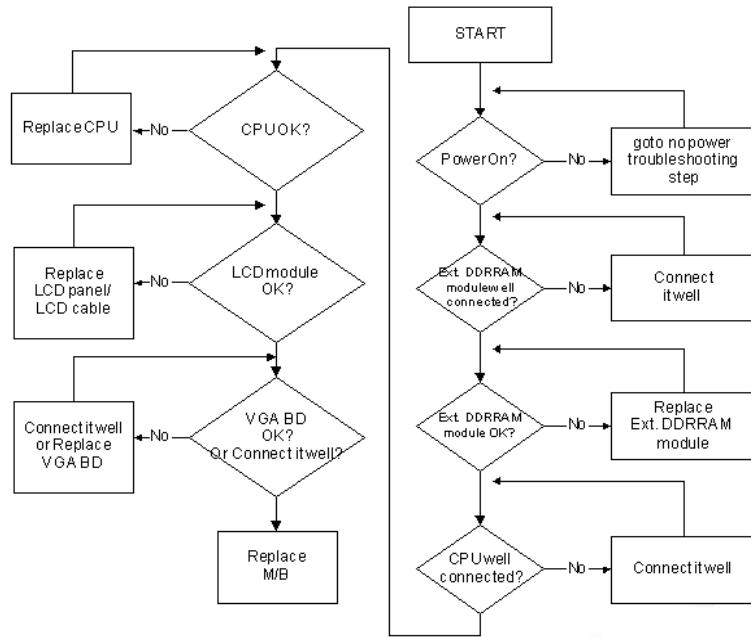
Computer Shutdown Intermittently

If the system powers off at intervals, perform the following actions one at a time to correct the problem.

1. Check the power cable is properly connected to the computer and the electrical outlet.
2. Remove any extension cables between the computer and the outlet.
3. Remove any surge protectors between the computer and the electrical outlet. Plug the computer directly into a known good electrical outlet.
4. Disconnect the power and open the casing to check the Thermal Unit (see "Thermal Unit Failure" on page 124) and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the issue is still not resolved, see "Online Support Information" on page 165.

No Display Issue

If the **Display** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



No POST or Video

If the POST or video doesn't display, perform the following actions one at a time to correct the problem.

1. Make sure that the internal display is selected. On this notebook model, switching between the internal display and the external display is done by pressing **Fn+F5**. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking at least one of the following occurs:
 - Fans start up
 - Status LEDs light up

If there is no power, see "Power On Issue" on page 114.

3. Drain any stored power by removing the power cable and battery and holding down the power button for 10 seconds. Reconnect the power and reboot the computer.
4. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing **Fn+F5** (on this model).

If the POST or video appears on the external display, see "LCD Failure" on page 117.

5. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.

If the computer boots correctly, add the devices one by one until the failure point is discovered.

6. Reseat the memory modules.
7. Remove the drives (see "Disassembly Process" on page 49).
8. If the Issue is still not resolved, see "Online Support Information" on page 165.

Abnormal Video Display

If video displays abnormally, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. If permanent vertical/horizontal lines or dark spots display in the same location, the LCD is faulty and should be replaced. See “Disassembly Process” on page 49.
3. If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. See “Disassembly Process” on page 49.
4. Adjust the brightness to its highest level. See the User Manual for instructions on adjusting settings.
NOTE: Ensure that the computer is not running on battery alone as this may reduce display brightness.
If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. See “Removing the LCD Module” on page 68.
5. Check the display resolution is correctly configured:
 - a. Minimize or close all Windows.
 - b. If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
 - c. If desktop display resolution is not normal, right-click on the desktop and select **Personalize** → **Display Settings**.
 - d. Click and drag the Resolution slider to the desired resolution.
 - e. Click **Apply** and check the display. Readjust if necessary.
6. Roll back the video driver to the previous version if updated.
7. Remove and reinstall the video driver.
8. Check the Device Manager to determine that:
 - The device is properly installed. There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
9. If the issue is still not resolved, see “Online Support Information” on page 165.
10. Run the Windows Memory Diagnostic from the operating system DVD and follow the onscreen prompts.
11. If the issue is still not resolved, see “Online Support Information” on page 165.

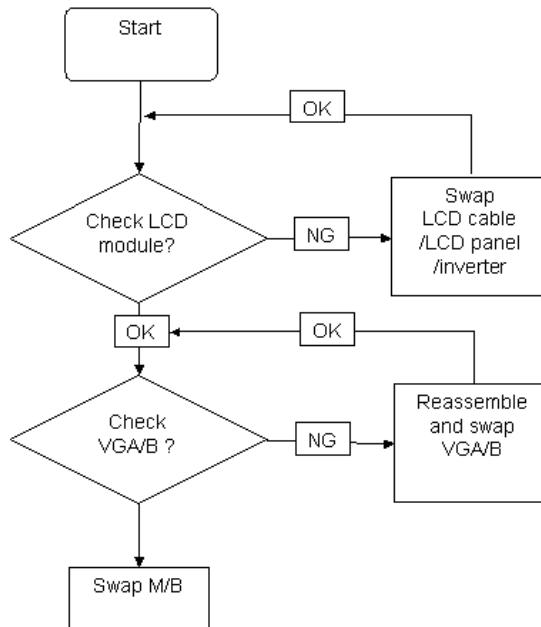
Random Loss of BIOS Settings

If the computer is experiencing intermittent loss of BIOS information, perform the following actions one at a time to correct the problem.

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.
If the BIOS settings are still lost, replace the cables.
4. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
5. Replace the Motherboard.
6. If the issue is still not resolved, see “Online Support Information” on page 165.

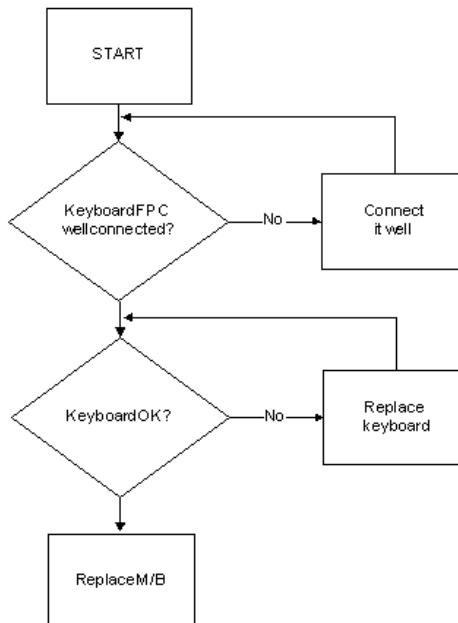
LCD Failure

If the **LCD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



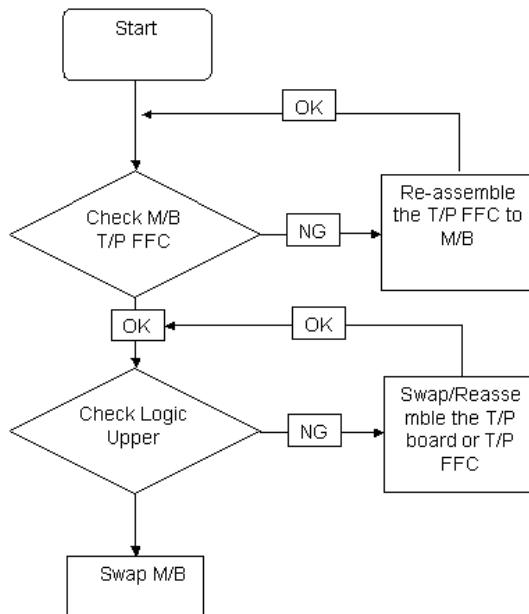
Built-In Keyboard Failure

If the built-in **Keyboard** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



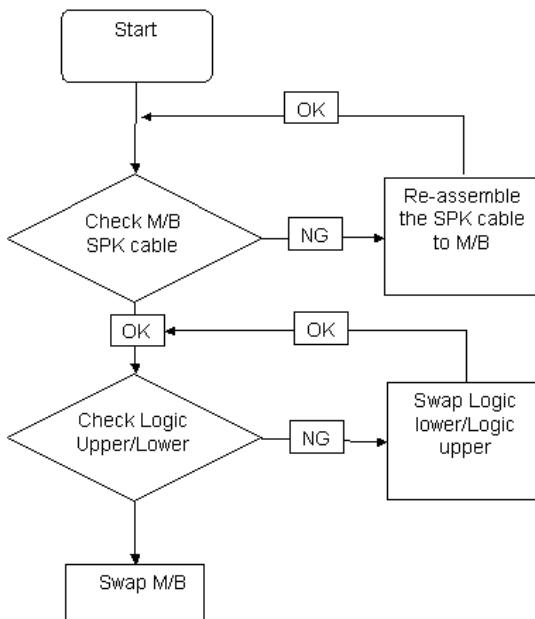
Touchpad Failure

If the **Touchpad** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Internal Speaker Failure

If the internal **Speakers** fail, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Sound Problems

If sound problems are experienced, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. Navigate to **Start**→**Control Panel**→**System and Maintenance**→**System**→**Device Manager**. Check the Device Manager to determine that:
 - The device is properly installed.
 - There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
3. Roll back the audio driver to the previous version, if updated recently.
4. Remove and reinstall the audio driver.
5. Ensure that all volume controls are set mid range:
 - a. Click the volume icon on the taskbar and drag the slider to 50. Ensure that the volume is not muted.
 - b. Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to **Start**→**Control Panel**→**Hardware and Sound**→**Sound**. Ensure that Speakers are selected as the default audio device (green check mark).

NOTE: If Speakers does not show, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).

7. Select Speakers and click **Configure** to start **Speaker Setup**. Follow the onscreen prompts to configure the speakers.
8. Remove and recently installed hardware or software.
9. Restore system and file settings from a known good date using **System Restore**.
If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
10. Reinstall the Operating System.
11. If the Issue is still not resolved, see “Online Support Information” on page 165.

Microphone Problems

If internal or external **Microphones** do not operate correctly, perform the following actions one at a time to correct the problem.

1. Check that the microphone is enabled. Navigate to **Start**→**Control Panel**→**Hardware and Sound**→**Sound** and select the **Recording** tab.
2. Right-click on the **Recording** tab and select **Show Disabled Devices** (clear by default).
3. The microphone appears on the **Recording** tab.
4. Right-click on the microphone and select **Enable**.
5. Select the microphone then click **Properties**. Select the **Levels** tab.
6. Increase the volume to the maximum setting and click **OK**.
7. Test the microphone hardware:
 - a. Select the microphone and click **Configure**.
 - b. Select **Set up microphone**.
 - c. Select the microphone type from the list and click **Next**.
 - d. Follow the onscreen prompts to complete the test.
8. If the Issue is still not resolved, see “Online Support Information” on page 165.

HDD Not Operating Correctly

If the **HDD** does not operate correctly, perform the following actions one at a time to correct the problem.

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. Run the Windows 7 Startup Repair Utility:
 - a. insert the Windows 7 Operating System DVD in the ODD and restart the computer.
 - b. When prompted, press any key to start to the operating system DVD.
 - c. The **Install Windows** screen displays. Click **Next**.
 - d. Select **Repair your computer**.
 - e. The **System Recovery Options** screen displays. Click **Next**.
 - f. Select the appropriate operating system, and click **Next**.

NOTE: Click **Load Drivers** if controller drives are required.

- g. Select **Startup Repair**.
- h. Startup Repair attempts to locate and resolve issues with the computer.
- i. When complete, click **Finish**.

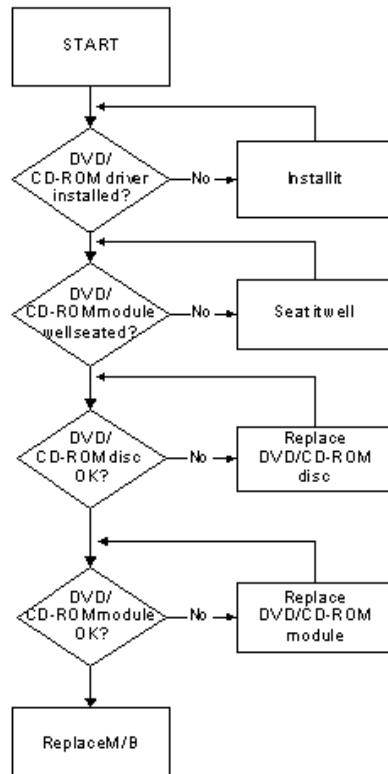
If an issue is discovered, follow the onscreen information to resolve the problem.

4. Run the Windows Memory Diagnostic Tool. For more information see Windows Help and Support.
5. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
6. Ensure all cables and jumpers on the HDD and ODD are set correctly.
7. Remove any recently added hardware and associated software.
8. Run the Windows Disk Defragmenter. For more information see Windows Help and Support.
9. Run Windows Check Disk by entering **chkdsk /r** from a command prompt. For more information see Windows Help and Support.
10. Restore system and file settings from a known good date using **System Restore**.
If the issue is not fixed, repeat the preceding steps and select an earlier time and date.

11. Replace the HDD. See “Main Unit Disassembly Process” on page 57.

ODD Failure

If the **ODD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



ODD Not Operating Correctly

If the **ODD** exhibits any of the following symptoms it may be faulty:

- Audio CDs do not play when loaded
- DVDs do not play when loaded
- Blank discs do not burn correctly
- DVD or CD play breaks up or jumps
- Optical drive not found or not active:
 - Not shown in My Computer or the BIOS setup
 - LED does not flash when the computer starts up
 - The tray does not eject
- Access failure screen displays
- The ODD is noisy

Perform the following general solutions one at a time to correct the problem.

1. Reboot the computer and retry the operation.
2. Try an alternate disc.
3. Navigate to **Start**→**Computer**. Check that the ODD device is displayed in the **Devices with Removable Storage** panel.
4. Navigate to **Start**→**Control Panel**→**System and Maintenance**→**System**→**Device Manager**.

- a. Double-click **IDE ATA/ATAPI controllers**. If a device displays a down arrow, right-click on the device and click **Enable**.
- b. Double-click **DVD/CD-ROM drives**. If the device displays a down arrow, right-click on the device and click **Enable**.
- c. Check that there are no yellow exclamation marks against the items in **IDE ATA/ATAPI controllers**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.
- d. Check that there are no yellow exclamation marks against the items in **DVD/CD-ROM drives**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.
- e. If the exclamation marker is not removed from the item in the lists, try removing any recently installed software and retrying the operation.

Discs Do Not Play

If discs do not play when inserted in the drive, perform the following actions one at a time to correct the problem.

- 1. Check that the disc is correctly seated in the drive tray and that the label on the disc is visible.
- 2. Check that the media is clean and scratch free.
- 3. Try an alternate disc in the drive.
- 4. Ensure that **AutoPlay** is enabled:
 - a. Navigate to **Start**→**Control Panel**→**Hardware and Sound**→**AutoPlay**.
 - b. Select **Use AutoPlay for all media and devices**.
 - c. In the Audio CD and DVD Movie fields, select the desired player from the drop down menu.
- 5. Check that the Regional Code is correct for the selected media:

IMPORTANT:Region can only be changed a limited number of times. After Changes remaining reaches zero, the region cannot be changed even Windows is reinstalled or the drive is moved to another computer.

- a. Navigate to **Start**→**Control Panel**→**System and Maintenance**→**System**→**Device Manager**.
- b. Double-click **DVD/CD-ROM drives**.
- c. Right-click **DVD drive** and click **Properties**, then click the **DVD Region** tab.
- d. Select the region suitable for the media inserted in the drive.

Discs Do Not Burn Properly

If discs can not be burned, perform the following actions one at a time to correct the problem.

- 1. Ensure that the default drive is record enabled:
 - a. Navigate to **Start**→**Computer** and right-click the writable ODD icon. Click **Properties**.
 - b. Select the **Recording** tab. In the **Desktop disc recording** panel, select the writable ODD from the drop down list.
 - c. Click **OK**.
- 2. Ensure that the software used for burning discs is the factory default. If using different software, refer to the software's user manual.

Playback is Choppy

If playback is choppy or jumps, perform the following actions one at a time to correct the problem.

- 1. Check that system resources are not running low:
 - a. Try closing some applications.
 - b. Reboot and try the operation again.
- 2. Check that the ODD controller transfer mode is set to DMA:
 - a. Navigate to **Start**→**Control Panel**→**System and Maintenance**→**System**→**Device Manager**.

- b. Double-click **IDE ATA/ATAPI controllers**, then right-click ATA Device 0.
- c. Click **Properties** and select the **Advanced Settings** tab. Ensure that the **Enable DMA** box is checked and click **OK**.
- d. Repeat for the other ATA Devices shown if applicable.

Drive Not Detected

If Windows cannot detect the drive, perform the following actions one at a time to correct the problem.

1. Restart the computer and press F2 to enter the BIOS Utility.

2. Check that the drive is detected in the **ATAPI Model Name** field on the Information page.

NOTE: Check that the entry is identical to one of the ODDs specified in “Hardware Specifications and Configurations” on page 16.

3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Main Unit Disassembly Process” on page 57.
 - a. Check for broken connectors on the drive, motherboard, and cables.
 - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
 - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Reseat the drive ensuring and all cables are connected correctly.
5. Replace the ODD. See “Disassembly Process” on page 49.

Drive Read Failure

If discs cannot be read when inserted in the drive, perform the following actions one at a time to correct the problem.

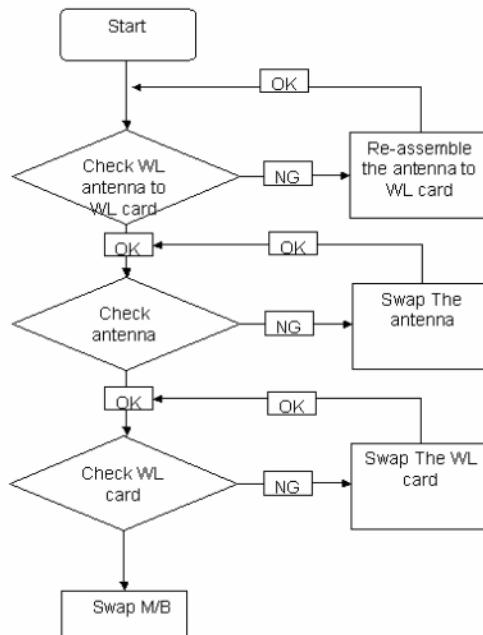
1. Remove and clean the failed disc.
2. Retry reading the CD or DVD.
 - d. Test the drive using other discs.
 - e. Play a DVD movie
 - f. Listen to a music CD

If the ODD works properly with alternate discs, the original disc is probably defective and should be replaced.

3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 49.
 - a. Check for broken connectors on the drive, motherboard, and cables.
 - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
 - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Replace the ODD. See “Disassembly Process” on page 49.

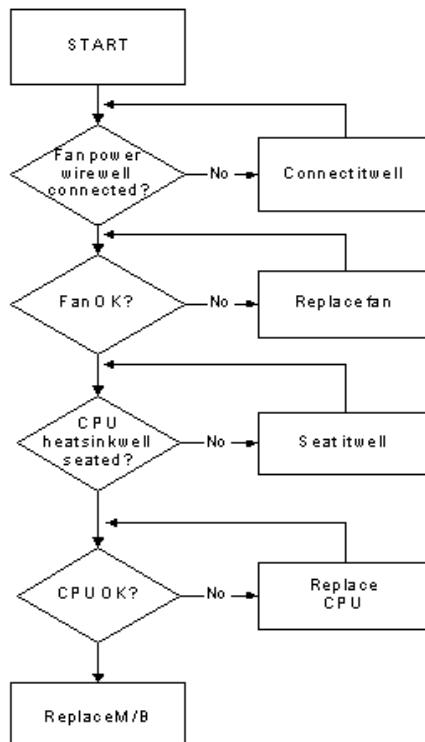
Wireless Function Failure

If the **WLAN** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Thermal Unit Failure

If the **Thermal Unit** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



External Mouse Failure

If an external **Mouse** fails, perform the following actions one at a time to correct the problem.

1. Try an alternative mouse.
2. If the mouse uses a wireless connection, insert new batteries and confirm there is a good connection. See the mouse user manual.
3. If the mouse uses a USB connection, try an alternate USB port.
4. Try an alternative program to verify mouse operation. Reinstall the program experiencing mouse failure.
5. Restart the computer.
6. Remove any recently added hardware and associated software.
7. Remove any recently added software and reboot.
8. Restore system and file settings from a known good date using **System Restore**.
If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
9. Run the Event Viewer to check the events log for errors. For more information see Windows Help and Support.
10. Roll back the mouse driver to the previous version if updated recently.
11. Remove and reinstall the mouse driver.
12. Check the Device Manager to determine that:
 - The device is properly installed. There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
13. If the Issue is still not resolved, see “Online Support Information” on page 165.

Other Failures

If the CRT Switch, Dock, LAN Port, external MIC or Speakers, PCI Express Card, 5-in-1 Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace a non-defective FRUs:

1. Check Drive whether is OK.
2. Check Test Fixture is ok.
3. Swap M/B to Try.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See "Power On Issue" on page 114.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
 - Non-Gateway devices
 - Printer, mouse, and other external devices
 - Battery acp
 - Hard disk drive
 - DIMM
 - CD-ROM/Diskette drive Module
 - PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
 - System board
 - LCD assembly

Post Codes

These tables describe the POST codes and descriptions during the POST.

| Code | POST Routine Description |
|------|---|
| 02h | Verify Real Mode |
| 03h | Disable Non-Maskable Interrupt (NMI) |
| 04h | Get CPU type |
| 06h | Initialize system hardware |
| 08h | Initialize chipset with initial POST values |
| 09h | Set IN POST flag |
| 0Ah | Initialize CPU registers |
| 0Bh | Enable CPU cache |
| 0Ch | Initialize caches to initial POST values |
| 0Eh | Initialize I/O component |

| Code | Beeps | POST Routine Description |
|------|-----------|---|
| 0Fh | | Initialize the local bus IDE |
| 10h | | Initialize Power Management |
| 11h | | Load alternate registers with initial POST values |
| 12h | | Restore CPU control word during warm boot |
| 13h | | Initialize PCI Bus Mastering devices |
| 14h | | Initialize keyboard controller |
| 16h | 1-2-2-3 | BIOS ROM checksum |
| 17h | | Initialize cache before memory autosize |
| 18h | | 8254 timer initialization |
| 1Ah | | 8237 DMA controller initialization |
| 1Ch | | Reset Programmable Interrupt Controller |
| 20h | 1-3-1-1 T | Test DRAM refresh |
| 22h | 1-3-1-3 | Test 8742 Keyboard Controller |
| 24h | | Set ES segment register to 4 GB |
| 26h | | Enable A20 line |
| 28h | | Autosize DRAM |
| 29h | | Initialize POST Memory Manager |
| 2Ah | | Clear 512 KB base RAM |
| 2Ch | 1-3-4-1 | RAM failure on address line xxxx* |
| 2Eh | 1-3-4-3 | RAM failure on data bits xxxx* of low byte of memory bus |
| 2Fh | | Enable cache before system BIOS shadow |
| 30h | 1-4-1-1 | RAM failure on data bits xxxx* of high byte of memory bus |
| 32h | | Test CPU bus-clock frequency |
| 33h | | Initialize Phoenix Dispatch Manager |
| 36h | | Warm start shut down |
| 38h | | Shadow system BIOS ROM |
| 3Ah | | Autosize cache |

| Code | Beeps | POST Routine Description |
|------|-------------|---|
| 3Ch | | Advanced configuration of chipset registers |
| 3Dh | | Load alternate registers with CMOS values |
| 42h | | Initialize interrupt vectors |
| 45h | | POST device initialization |
| 46h | 2-1-2-3 Che | ck ROM copyright notice |
| 48h | | Check video configuration against CMOS |
| 49h | | Initialize PCI bus and devices |
| 4Ah | | Initialize all video adapters in system |
| 4Bh | | QuietBoot start (optional) |
| 4Ch | | Shadow video BIOS ROM |

| Code | Beeps | POST Routine Description |
|-------------|---------|--|
| 4Eh | | Display BIOS copyright notice |
| 50h | | Display CPU type and speed |
| 51h | | Initialize EISA board |
| 52h T | | est keyboard |
| 54h | | Set key click if enabled |
| 58h | 2-2-3-1 | Test for unexpected interrupts |
| 59h Initial | | ize POST display service |
| 5Ah | | Display prompt "Press F2 to enter SETUP" |
| 5Bh | | Disable CPU cache |
| 5Ch | | Test RAM between 512 and 640 KB |
| 60h | | Test extended memory |
| 62h | | Test extended memory address lines |
| 64h Jump | | to UserPatch1 |
| 66h | | Configure advanced cache registers |
| 67h | | Initialize Multi Processor APIC |
| 68h | | Enable external and CPU caches |
| 69h | | Setup System Management Mode (SMM) area |
| 6Ah | | Display external L2 cache size |
| 6Bh | | Load custom defaults (optional) |
| 6Ch | | Display shadow-area message |
| 6Eh | | Display possible high address for UMB recovery |
| 70h Displ | | ay error messages |
| 72h | | Check for configuration errors |
| 76h | | Check for keyboard errors |
| 7Ch | | Set up hardware interrupt vectors |
| 7Eh | | Initialize coprocessor if present |
| 80h | | Disable onboard Super I/O ports and IRQs |
| 81h | | Late POST device initialization |
| 82h | | Detect and install external RS232 ports |
| 83h | | Configure non-MCD IDE controllers |
| 84h | | Detect and install external parallel ports |

| Code | Beeps | POST Routine Description |
|-------------|-------|---|
| 85h Initial | | Initialize PC-compatible PnP ISA devices |
| 86h | | Re-initialize onboard I/O ports. |
| 87h | | Configure Motherboard Configurable Devices (optional) |
| 88h | | Initialize BIOS Data Area |
| 89h | | Enable Non-Maskable Interrupts (NMIs) |
| 8Ah | | Initialize Extended BIOS Data Area |
| 8Bh | | Test and initialize PS/2 mouse |
| 8Ch | | Initialize floppy controller |

| Code | Beeps | POST Routine Description |
|-------------|-------|---|
| 8Fh | | Determine number of ATA drives (optional) |
| 90h Initial | | Initialize hard-disk controllers |
| 91h Initial | | Initialize local-bus hard-disk controllers |
| 92h Jump | | Jump to UserPatch2 |
| 93h | | Build MPTABLE for multi-processor boards |
| 95h | | Install CD ROM for boot |
| 96h | | Clear huge ES segment register |
| 97h | | Fixup Multi Processor table |
| 98h | 1-2 | Search for option ROMs. One long, two short beeps on checksum failure |
| 99h | | Check for SMART Drive (optional) |
| 9Ah Shad | | Show option ROMs |
| 9Ch | | Set up Power Management |
| 9Dh | | Initialize security engine (optional) |
| 9Eh | | Enable hardware interrupts |
| 9Fh | | Determine number of ATA and SCSI drives |
| A0h | | Set time of day |
| A2h | | Check key lock |
| A4h | | Initialize Typematic rate |
| A8h Erase | | F2 prompt |
| AAh | | Scan for F2 key stroke |
| ACh Enter | | SETUP |
| AEh | | Clear Boot flag |
| B0h | | Check for errors |
| B2h | | POST done - prepare to boot operating system |
| B4h | 1 | One short beep before boot |
| B5h | | Terminate QuietBoot (optional) |
| B6h | | Check password (optional) |
| B9h Prep | | Prepare Boot |
| BAh | | Initialize DMI parameters |
| BBh | | Initialize PnP Option ROMs |
| BCh | | Clear parity checkers |
| BDh | | Display MultiBoot menu |

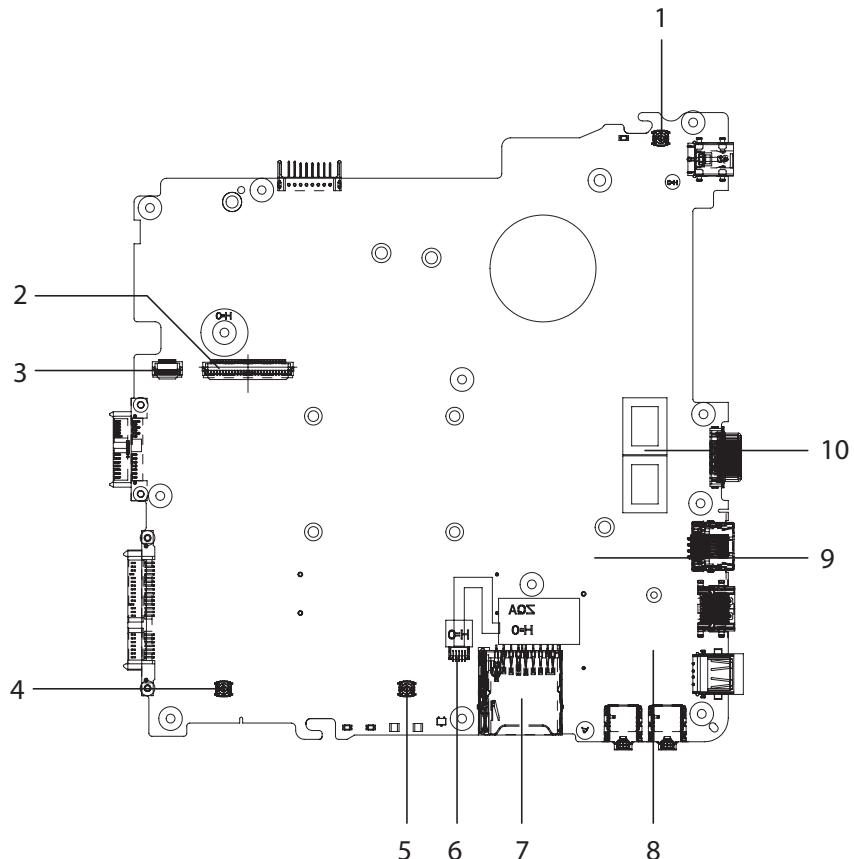
| Code | Beeps | POST Routine Description |
|-------------|-------|-----------------------------------|
| BEh Cle | | ar screen (optional) |
| BFh | | Check virus and backup reminders |
| C0h | | Try to boot with INT 19 |
| C1h Initial | | ize POST Error Manager (PEM) |
| C2h Initial | | ize error logging |
| C3h | | Initialize error display function |

| Code | Beeps | POST Routine Description |
|----------|-------|--|
| C4h | | Initialize system error handler |
| C5h | | PnPd dual CMOS (optional) |
| C6h | | Initialize notebook docking (optional) |
| C7h | | Initialize notebook docking late |
| C8h | | Force check (optional) |
| C9h | | Extended checksum (optional) |
| D2h Unkn | | own interrupt |

| Code | Beeps | For Boot Block in Flash ROM |
|----------------------------|-------|-----------------------------------|
| E0h Initial | | ize the chipset |
| E1h Initial | | ize the bridge |
| E2h Initial | | ize the CPU |
| E3h | | Initialize system timer |
| E4h | | Initialize system I/O |
| E5h | | Check force recovery boot |
| E6h | | Checksum BIOS ROM |
| E7h G | | o to BIOS |
| E8h Set | | Huge Segment |
| E9h Initial | | ize Multi Processor |
| EAh | | Initialize OEM special code |
| EBh | | Initialize PIC and DMA |
| EC _h Initialize | | Memory type |
| ED _h Initialize | | Memory size |
| EEh | | Shadow Boot Block |
| EFh | | System memory test |
| F0h | | Initialize interrupt vectors |
| F1h | | Initialize Run Time Clock |
| F2h Initial | | ize video |
| F3h | | Initialize System Management Mode |
| F4h | 1 | Output one beep before boot |
| F5h | | Boot to Mini DOS |
| F6h Cle | | ar Huge Segment |
| F7h | | Boot to Full DOS |

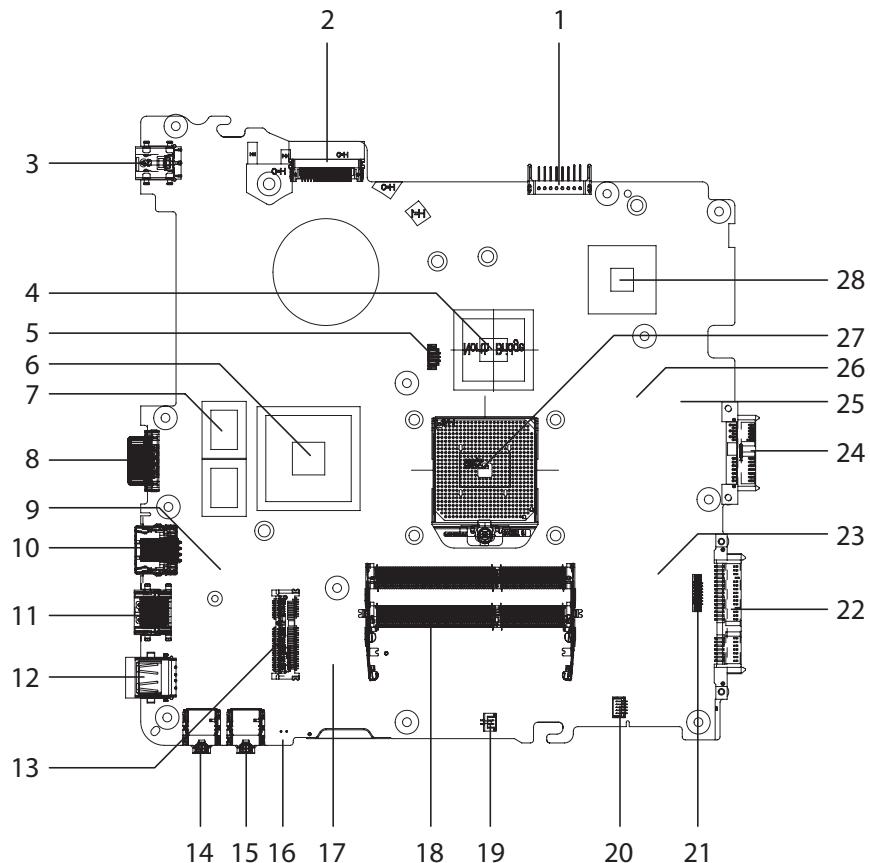
Jumper and Connector Locations

Top View



| Item | Description | Item | Description |
|------|---------------------|------|---------------------------|
| 1 | SW1 / Power Button | 6 | CN22 / BT V2.1 wire conn. |
| 2 | CN2 / K/B FFC conn. | 7 | CN3 / Card reader Conn |
| 3 | CN1 / TP FFC conn. | 8 | U11 / Codec IC |
| 4 | Glide PAD Right SW | 9 | U8 / LAN control IC |
| 5 | Glide PAD Left SW | 10 | U6,U73 / Dis VRAM |

Bottom View



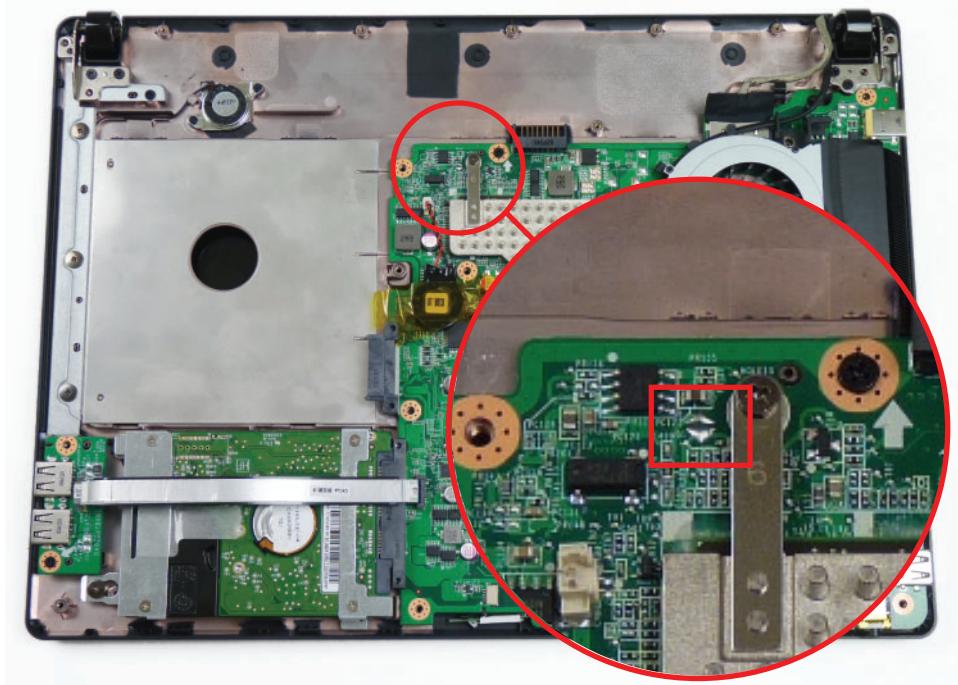
| Item | Description | Item | Description |
|------|------------------------|------|---------------------------|
| 1 | PJ2 Battery Conn | 15 | CN21 / LINE-OUT |
| 2 | CN5 / LCD wire Conn | 16 | CN4 / INT Mic conn |
| 3 | PJ1/ PWR Jack conn. | 17 | U25 / Card reader IC |
| 4 | U16 / N.B. | 18 | CN11, CN15 / Memory DIMM |
| 5 | CN7 / FAN Conn | 19 | CN19 / Int. SPK. Conn |
| 6 | U20 / Park VGA IC | 20 | CN18 / BT V3.0 wire conn. |
| 7 | U19 / U23 Dis VRAM IC. | 21 | CN12 / USB Board |
| 8 | CN9 / CRT Conn | 22 | CN14 / HDD Conn |
| 9 | U24 / LAN transformer | 23 | PU14/ 3V/5V PWM IC |
| 10 | CN10 / LAN Conn | 24 | CN8 / ODD Conn |
| 11 | CN13 / HDMI Conn. | 25 | U17 / System BIOS |
| 12 | CN17 / USB Conn. | 26 | U18 / EC/ KBC |
| 13 | CN16 / Mini card Conn | 27 | U22 / CPU socket |
| 14 | CN20 / EXT Mic conn | 28 | U14 / SB Chip |

Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for Acer Aspire 4252/4552/4552G. Gateway provides one Hardware Open Gap on the main board for clearing password check, and one Hotkey for enabling BIOS Recovery.

Clearing Password Check

Hardware Open Gap Description is as follows:



| Item | Description | Location |
|------|-------------|---|
| G1 | CMOS Jumper | Between RTC connector and battery connector |

Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

1. Power Off the system, and remove HDD, AC and Battery from the machine.
2. Open the Memory Cover of the machine and locate the G1 jumper.
3. Use an electric conductivity tool to short the two points of the HW Gap.
4. Plug in AC, keep the short condition on the HW Gap, and press Power Button to power on the system till BIOS POST finish. Then remove the tool from the HW Gap.
5. Restart system. Press **F2** key to enter BIOS Setup menu.
6. If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

NOTE: These steps are only for clearing BIOS Password (Supervisor Password and User Password).

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block:

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

BIOS Recovery Hotkey:

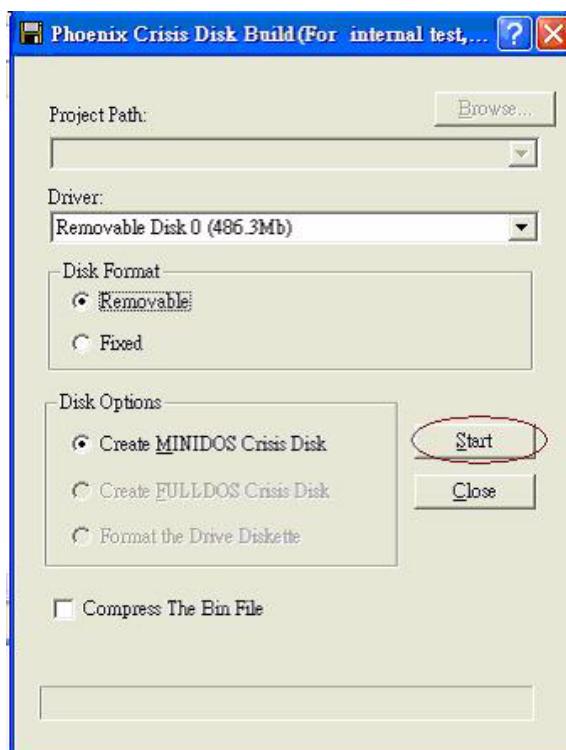
The system provides a function hotkey: **Fn+Esc**, to enable the BIOS Recovery process when the system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

Steps for BIOS Recovery from USB Storage:

Before doing this, prepare the Crisis USB key. The Crisis USB key could be made by executing the Crisis Disk program in another system with Windows 7 OS.

Follow the steps below:

1. Insert a USB stick/floppy.
2. Execute WINCRIS.exe and click **Start** to create the crisis disk.



3. Plug USB storage into USB port of the system that needs to be rescued.
4. Press **Fn + ESC** and the power button to power on the system.
5. The system will go into crisis mode and recover BIOS.

FRU (Field Replaceable Unit) List

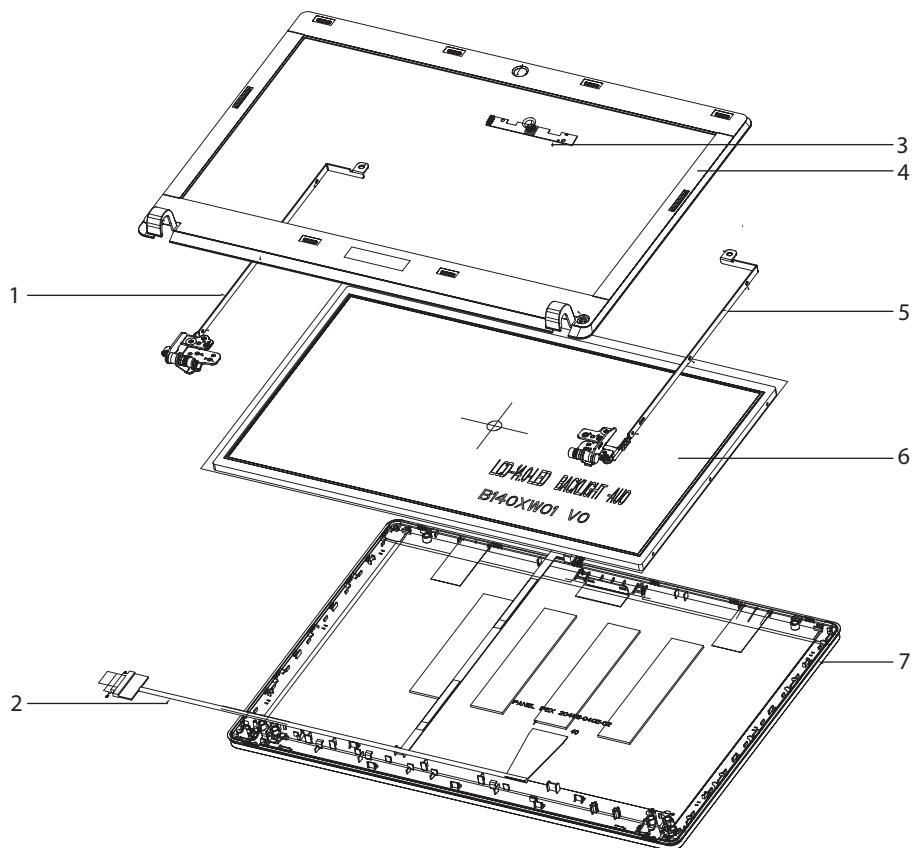
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Acer Aspire 4252/4552/4552G. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

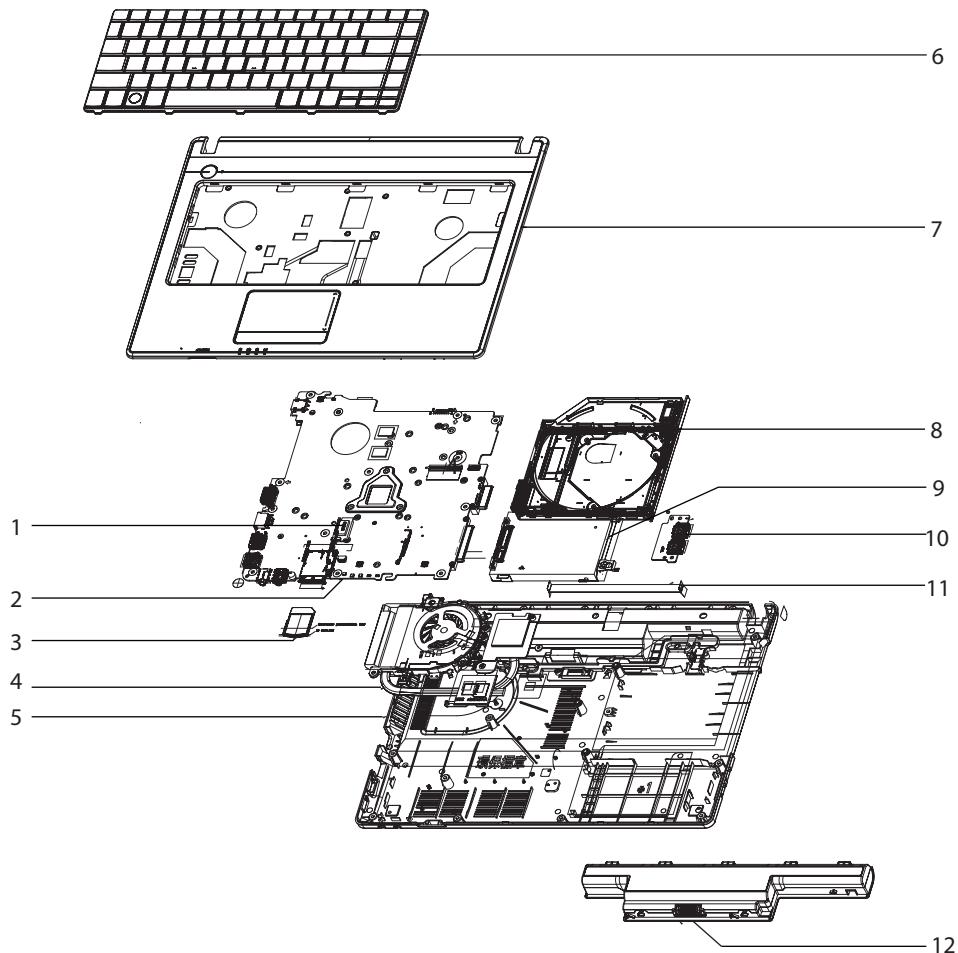
Acer Aspire 4252/4552/4552G Exploded Diagrams

LCD Assembly



| No. | Description | Acer P/N |
|-----|-----------------|--------------|
| 1 | Left hinge | 33.R6Z07.004 |
| 2 | LVDS cable assy | 50.R6Z07.004 |
| 3 | Camera | AM.21400.067 |
| 4 | LCD bezel | 60.R6Z07.010 |
| 5 | Right hinge | 33.R6Z07.005 |
| 6 | LCD Panel | LK.14008.004 |
| 7 | LCD cover | 60.R6Z07.009 |

Chassis Assembly



| No. | Description | Acer P/N | No. | Description | Acer P/N |
|-----|------------------|--------------|-----|-------------|--------------|
| 1 | Bluetooth module | BH.21100.006 | 7 | Top cover | 60.R6Z07.001 |
| 2 | Mainboard | MB.R6306.001 | 8 | ODD module | KU.00801.040 |
| 3 | Dummy card | 42.PSR07.002 | 9 | HDD | KH.16001.045 |
| 4 | Thermal module | 60.R7607.002 | 10 | USB module | 55.R6Z07.001 |
| 5 | Base assy | 60.R6Z07.007 | 11 | USB FFC | 50.TVM07.002 |
| 6 | Keyboard | KB.I140A.204 | 12 | Battery | BT.00603.111 |

Acer Aspire 4252/4552/4552G FRU List

| Category | Description | P/N |
|---|---|--------------|
| ADAPTER | | |
| | Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65VH BA, LV5, Low profile LED LF | AP.06501.033 |
| | Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-69AW, LV5, Low profile LED LF | AP.06503.029 |
| | Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow CPA09-A065N1, LV5, low profile LED LF | AP.0650A.017 |
| | Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DBH, LV5 LED LF | AP.09001.031 |
| | Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF | AP.09003.021 |
| | Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF | AP.0900A.005 |
| | Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF | AP.06501.026 |
| | Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF | AP.06503.024 |
| | Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF | AP.0650A.012 |
| BATTERY | | |
|  | Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AS10D31 | BT.00603.111 |
| | Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41 | BT.00604.049 |
| | Battery PANASONIC AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D51 | BT.00605.062 |
| | Battery SIMPLO AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D71 | BT.00607.125 |
| | Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73 | BT.00607.126 |
| | Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D | BT.00607.127 |
| BOARD | | |
|  | Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33 Ver.3/PCB V015) HSF | BH.21100.006 |
| | Foxconn Bluetooth BRM 2046 BT3.0 (T60H928.33) f/w:861 | BH.21100.008 |
| | Foxconn Bluetooth ATH AR3011 | BH.21100.005 |
| | Foxconn Bluetooth ATH AR3011 (BT3.0) | BH.21100.009 |
| | Foxconn Bluetooth BRM 2070 (T77H114.01) | BH.21100.007 |
| | Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0 | BH.21100.010 |
|  | Foxconn Wireless LAN Atheros HB95BG (HM) T77H121.10 | NI.23600.077 |
| | Liteon Wireless LAN Atheros HB97 2x2 BGN (HM) WN6603AH | NI.23600.073 |
| | Foxconn Wireless LAN Atheros HB97 2x2 BGN (HM) | NI.23600.072 |
| | Foxconn Wireless LAN Broadcomm 43225 2x2 BGN (HM) T77H103.00 | NI.23600.066 |
|  | USB BOARD | 55.R6Z07.001 |

| Category | Description | P/N |
|---|--|--------------|
| CABLE | | |
| | POWER CORD UK 3PIN | 27.A03V7.004 |
| | PWR CORD V943B30001218008 DANISH 3P | 27.A03V7.006 |
| | POWER CORD US 3PIN ROHS | 27.TAXV7.001 |
| | PWR CORD(ISR)1.8M 3PBLK FZ0I0008-038 | 27.TATV7.005 |
| | PWR CORD V50CB3T3012180QD TW-110V,3P | 27.A99V7.002 |
| | POWER CORD(SWI)1.8M 3PBLACK FZ010008-011 | 27.A99V7.004 |
| | POWER CORD(IT) 1.8M 3PBLACK FZ010008-008 | 27.A99V7.005 |
| | POWER CORD(S.A) 1.8M 3BLACK FZ010008-006 | 27.T48V7.001 |
| | POWER CORD(EU) 1.8M 3PBLACK FM010008-010 | 27.TATV7.001 |
| | POWER CORD BRAZIL IMETRO 3 PIN | 27.S0607.001 |
|  | BLUETOOTH CABLE | 50.PSR07.001 |
|  | BLUETOOTH CABLE (6P FOR BT3.0 BRM2070) | 50.TVM07.002 |
| CABLE | FFC- USB | 50.R6Z07.001 |
| CASE/COVER/BRACKET ASSEMBLY | | |
|  | UPPER CASE W/ SPK,TP, TP FFC - BLACK | 60.R6Z07.001 |
| | UPPER CASE W/O SPK,TP,TP FFC - BLACK | 60.R6Z07.004 |
| | TOUCH PAD | 56.R6Z07.001 |
| | FFC- TP TO MB | 50.R6Z07.003 |
| | SPEAKER | 23.R6Z07.001 |
| CASE/COVER/BRACKET ASSEMBLY | | |
| | UPPER CASE W/ SPK,TP, TP FFC - BROWN | 60.R6Z07.002 |
| | UPPER CASE W/O SPK,TP,TP FFC - BROWN | 60.R6Z07.005 |
| | TOUCH PAD | 56.R6Z07.001 |
| | FFC- TP TO MB | 50.R6Z07.003 |
| | SPEAKER | 23.R6Z07.001 |
| CASE/COVER/BRACKET ASSEMBLY | | |
| | UPPER CASE W/ SPK,TP, TP FFC - RED | 60.R6Z07.003 |
| | UPPER CASE W/O SPK,TP,TP FFC - RED | 60.R6Z07.006 |
| | TOUCH PAD | 56.R6Z07.001 |
| | FFC- TP TO MB | 50.R6Z07.003 |
| | SPEAKER | 23.R6Z07.001 |
| CASE/COVER/BRACKET ASSEMBLY | | |
|  | LOWER CASE | 60.R6Z07.007 |
| | HINGE SUPPORT BRACKET FOR UPPER CASE | 33.R6Z07.001 |
| | DUMMY CARD | 42.PSR07.002 |

| Category | Description | P/N |
|--|---|--------------|
| CPU/PROCESSOR | | |
|  | CPU AMD AthlonII P340 PGA 2.2G 1M 25W | KC.AP002.340 |
| | CPU AMD - V140 PGA 2.3G 512K 25W | KC.V0002.140 |
| | CPU AMD PhenomII N850 PGA 2.2G 1.5M 35W | KC.PN002.850 |
| | CPU AMD PhenomII N950 PGA 2.1G 2M 35W | KC.PN002.950 |
| | CPU AMD PhenomII P840 PGA 1.9G 1.5M 25W | KC.PP002.840 |
| | CPU AMD PhenomII P940 PGA 1.7G 2M 25W | KC.PP002.940 |
| | CPU AMD TurionII P540 PGA 2.4G 2M 25W | KC.TP002.540 |
| DVD RW DRIVE | | |
| DVD RW DRIVE | DVD/RW SUPER MULTI SATA MODULE | 6M.R7607.001 |
|  | ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633F LF W/O bezel SATA (HF + Windows 7) | KU.00801.040 |
| | ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT32N (R5-2) LF W/O bezel SATA with Renesas solution + PCC LD (HF + Windows 7) | KU.0080D.055 |
| | ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A5SH LF+HF W/O bezel SATA With TI + Rohm Solution (HF + Windows 7) | KU.0080F.014 |
| | ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7) | KU.0080E.027 |
|  | ODD BEZEL - SUPER MULTI | 60.R6Z07.008 |
|  | ODD BRACKET | 33.PUM07.001 |
| HDD/HARD DISK DRIVE | | |
|  | HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1 | KH.16001.045 |
| | HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J | KH.16004.008 |
| | HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1 | KH.25001.019 |
| | HDD SEAGATE 2.5" 5400rpm 320GB ST9320310AS,9RN132-188, Cameron 320G/P SATA 8MB LF F/W:0001SDM1 | KH.32001.019 |
| | HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ001J | KH.32004.004 |
| | HDD WD 2.5" 5400rpm 320GB WD3200BPVT-22ZEST0, ML320S, 4K drive SATA 8MB LF F/W: 01.01A01 | KH.32008.022 |
| | HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1 | KH.50001.017 |
| | HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J | KH.50004.002 |
| | HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ002J | KH.64004.001 |
| | HDD WD 2.5" 5400rpm 750GB WD7500BPVT-22HXZT1, ML375M, 4K drive SATA 8MB LF F/W:01.01A01 | KH.75008.009 |
| | HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm | KH.16007.026 |

| Category | Description | P/N |
|--|--|--------------|
|  | HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01 | KH.16008.027 |
| | HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J | KH.25004.005 |
| | HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm | KH.25007.016 |
| | HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01. | KH.25008.025 |
| | HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm | KH.32007.008 |
| | HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm | KH.50007.010 |
| | HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01 | KH.50008.017 |
| | HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01 | KH.64008.004 |
|  | HDD FRONT BRACKET | 33.R6Z07.003 |
|  | HDD BRACKET | 33.R6Z07.002 |
| KEYBOARD | | |
|  | Keyboard ACER AC4T_A10B AC4T 86KS Black Arabic Texture | KB.I140A.204 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Belgium Texture | KB.I140A.205 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Brazilian Portuguese Texture | KB.I140A.206 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black CZ/SK Texture | KB.I140A.207 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black Chinese Texture | KB.I140A.208 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Danish Texture | KB.I140A.209 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black FR/Arabic Texture | KB.I140A.210 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black French Texture | KB.I140A.211 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black German Texture | KB.I140A.212 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black Greek Texture | KB.I140A.213 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Hungarian Texture | KB.I140A.214 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Italian Texture | KB.I140A.215 |
| | Keyboard ACER AC4T_A10B AC4T 91KS Black Japanese Texture | KB.I140A.216 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black Korean Texture | KB.I140A.217 |

| Category | Description | P/N |
|---|--|--------------|
|  | Keyboard ACER AC4T_A10B AC4T 87KS Black Nordic Texture | KB.I140A.218 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Norwegian Texture | KB.I140A.219 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Portuguese Texture | KB.I140A.220 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black Russian Texture | KB.I140A.221 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black SLO/CRO Texture | KB.I140A.222 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Spanish Texture | KB.I140A.223 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Sweden Texture | KB.I140A.224 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Swiss/G Texture | KB.I140A.225 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black Thailand Texture | KB.I140A.226 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black Turkish Texture | KB.I140A.227 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black UK Texture | KB.I140A.228 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black US International Texture | KB.I140A.229 |
| | Keyboard ACER AC4T_A10B AC4T 86KS Black US International w/ Hebrew Texture | KB.I140A.230 |
| | Keyboard ACER AC4T_A10B AC4T 87KS Black US w/ Canadian French Texture | KB.I140A.231 |
| LCD | | |
|  | LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - BLACK | 6M.R7607.002 |
|  | LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1 | LK.14008.004 |
| | LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1 | LK.14006.011 |
| | LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1 | LK.1400D.008 |
|  | LCD COVER W/ ANT - IMR BLACK | 60.R6Z07.009 |
| | ANTENNA - WIMAX | 50.R6Z07.002 |
|  | LCD BEZEL FOR CCD | 60.R6Z07.010 |

| Category | Description | P/N |
|---|--|--------------|
|  | LCD BRACKET W/ HINGE - L | 33.R6Z07.004 |
|  | LCD BRACKET W/ HINGE - R | 33.R6Z07.005 |
|  | LCD CABLE | 50.R6Z07.004 |
|  | Chicony 1.3M CH9665SN (CNF9157) | AM.21400.067 |
| | Suyin 1.3M SY9665SN | AM.21400.068 |
| | Liteon 1.3M LT9665AL (09P2SF119) | AM.21400.069 |
| LCD | | |
| | LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - BROWN | 6M.R7607.003 |
|  | LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1 | LK.14008.004 |
| | LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1 | LK.14006.011 |
| | LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving) | LK.14005.010 |
| | LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1 | LK.1400D.008 |
| | LCD COVER W/ ANT - IMR BROWN | 60.R6Z07.011 |
| | ANTENNA - WIMAX | 50.R6Z07.002 |
| | LCD BEZEL FOR CCD | 60.R6Z07.010 |
|  | LCD BRACKET W/ HINGE - L | 33.R6Z07.004 |
|  | LCD BRACKET W/ HINGE - R | 33.R6Z07.005 |
|  | LCD CABLE | 50.R6Z07.004 |
|  | Chicony 1.3M CH9665SN (CNF9157) | AM.21400.067 |
| | Suyin 1.3M SY9665SN | AM.21400.068 |
| | Liteon 1.3M LT9665AL (09P2SF119) | AM.21400.069 |
| LCD | | |
| | LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - RED | 6M.R7607.004 |
|  | LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1 | LK.14008.004 |
| | LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1 | LK.14006.011 |
| | LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving) | LK.14005.010 |
| | LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1 | LK.1400D.008 |
| | LCD COVER W/ ANT - IMR RED | 60.R6Z07.012 |
| | ANTENNA - WIMAX | 50.R6Z07.002 |
| | LCD BEZEL FOR CCD | 60.R6Z07.010 |
|  | LCD BRACKET W/ HINGE - L | 33.R6Z07.004 |

| Category | Description | P/N |
|---|---|--------------|
|  | LCD BRACKET W/ HINGE - R | 33.R6Z07.005 |
|  | LCD CABLE | 50.R6Z07.004 |
|  | Chicony 1.3M CH9665SN (CNF9157) | AM.21400.067 |
| | Suyin 1.3M SY9665SN | AM.21400.068 |
| | Liteon 1.3M LT9665AL (09P2SF119) | AM.21400.069 |
| MAINBOARD | | |
|  | MAIN BOARD DIS AMD PARK, W/CARD READER,MIC | MB.R6306.001 |
| | MAIN BOARD UMA AMD, W/CARD READER,MIC | MB.R6206.001 |
| MEMORY | | |
|  | Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um | KN.1GB07.004 |
| | Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm | KN.1GB0B.035 |
| | Memory HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055um | KN.1GB0G.026 |
| | Memory UNIFOSA SO-DIMM DDRIII 1333 1GB GU672203EP0200 LF 128*8 0.065um | KN.1GB0H.017 |
| | Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um | KN.2GB07.004 |
| | Memory ELPIDA SO-DIMM DDRIII 1333 2GB EBJ21UE8BFU0-DJ-F LF 128*8 0.065um | KN.2GB09.009 |
| | Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5673FH0-CH9 LF 128*8 46nm | KN.2GB0B.023 |
| | Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5773CHS-CH9 LF 256*8 46nm | KN.2GB0B.026 |
| | Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT125S6TFR8C-H9 LF 128*8 0.055um | KN.2GB0G.016 |
| | Memory ELPIDA SO-DIMM DDRIII 1333 1GB EBJ10UE8BDS0-DJ-F LF 128*8 0.065um | KN.1GB09.015 |
| HEATSINK | | |
|  | THERMAL MODULE 35W - UMA | 60.R7607.001 |
| | THERMAL MODULE 35W - DIS | 60.R7607.002 |
| MISCELLANEOUS | | |
| | RUBBER FOOT - REAR | 47.PSR07.003 |
| | LCD RUBBER - UP | 47.R6Z07.001 |
| | LCD RUBBER - MID | 47.R6Z07.002 |
| | LOWER CASE RUBBER FOOT - F | 47.PSR07.001 |
| | TP PROTECT MYLAR | 47.R6Z07.004 |
| | LCD SCREW MYLAR | 47.R6Z07.003 |

Screw List

| CATEGORY | PARTNAME | ACERPARTNO. |
|--------------|------------------------------------|--------------|
| SCREW | | |
| | SCREW M2-0.4*2-I(BNI)(NYLOK)IRON | 86.W4107.002 |
| | SCREW M2.0*3.95-I(BNI)(NYLOK) | 86.R6Z07.002 |
| | SCREW M2.0*3.0-I(BKAG)(NYLOK IRON) | 86.ARE07.002 |
| | SCREW M3*0.5+3.5I | 86.N1407.007 |
| | SCREW M2.5*4.0-I(NI)(NYLOK) | 86.R6Z07.001 |
| | SCREW M2.0*5-I(NI)(NYLOK) | 86.T23V7.010 |
| | SCREW M2.5*4.0-I(BKAG)(NYLOK)IRON | 86.PSR07.001 |
| | SCREW M2.5*6.5-I(BZN(NYLOK-RED) | 86.ARE07.001 |
| | SCREW M2.5*5-I(ZN/B) | 86.NBG07.001 |

Model Definition and Configuration

Aspire 4252

| Model | RO | Country | Acer Part No | Description |
|-------------------|-----|------------|---------------|---|
| AS4252-141G32Mnkk | PA | ACLA-Spain | LX.R64 08.002 | AS4252-141G32Mnkk EM W7ST32EMASEA3 MC UMACKk_3 1*1G/320/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-141G32Mnkk | PA | ACLA-Spain | LX.R64 08.003 | AS4252-141G32Mnkk EM W7ST32EMASEA1 MC UMACKk_3 1*1G/320_5.4k_4k/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-141G32Mnkk | PA | ACLA-Spain | LX.R64 08.004 | AS4252-141G32Mnkk EM W7ST32EMASEA4 MC UMACKk_3 1*1G/320_5.4k_4k/6L2.2/2R/ CB_bgn_1.3C_HG_EN31 |
| AS4252-141G32Mnkk | PA | Chile | LX.R64 08.005 | AS4252-141G32Mnkk EM W7ST32EMASCL3 MC UMACKk_3 1*1G/320_5.4k_4k/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-141G32Mnkk | AAP | Thailand | LX.R64 0C.001 | AS4252-141G32Mnkk LINPUSATH1 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4252-142G25Mnkk | PA | ACLA-Spain | LX.R64 0C.002 | AS4252-142G25Mnkk LINPUSAEA1 UMACKk_3 1*2G/250/6L2.2/2R/CB_bgn_1.3C_HG_EN62 |
| AS4252-142G32Mnkk | PA | ACLA-Spain | LX.R64 08.001 | AS4252-142G32Mnkk EM W7ST32EMASEA1 MC UMACKk_3 1*2G/320/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-142G32Mnkk | PA | ACLA-Spain | LX.R64 08.006 | AS4252-142G32Mnkk EM W7ST32EMASEA3 MC UMACKk_3 1*2G/320/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-142G32Mnkk | PA | ACLA-Spain | LX.R64 08.007 | AS4252-142G32Mnkk EM W7ST32EMASEA1 MC UMACKk_3 1*2G/320_5.4k_4k/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-142G32Mnkk | PA | Chile | LX.R64 08.008 | AS4252-142G32Mnkk EM W7ST32EMASCL3 MC UMACKk_3 1*2G/320_5.4k_4k/6L2.2/2R/ CB_bgn_1.3C_HG_ES51 |
| AS4252-144G50Mncc | WW | GCTWN | S2.R76 02.001 | AS4252-144G50Mncc W7HP64ASWW1 MC UMACcc_3 2*2G/500_L/BT/6L2.2/2R/ CB_bgn_1.3C_HG_ES61 |
| AS4252-144G50Mnkk | WW | GCTWN | S2.R64 02.001 | AS4252-144G50Mnkk W7HP64ASWW1 MC UMACKk_3 2*2G/500_L/BT/6L2.2/2R/ CB_bgn_1.3C_HG_ES61 |
| AS4252-144G75Mnrr | WW | GCTWN | S2.R77 02.001 | AS4252-144G75Mnrr W7HP64ASWW1 MC UMACrr_3 2*2G/750/BT/6L2.2/2R/ CB_bgn_1.3C_HG_ES61 |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|-------------------|------------|--------------|------------------|---------|----------|--------|
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.002 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.003 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.004 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-141G32Mnkk | Chile | LX.R6408.005 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-141G32Mnkk | Thailand | LX.R640C.001 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-142G25Mnkk | ACLA-Spain | LX.R640C.002 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.001 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.006 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.007 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-142G32Mnkk | Chile | LX.R6408.008 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-144G50Mncc | GCTWN | S2.R7602.001 | AS4252_U MACcc_3 | AMDV140 | UMA | N |
| AS4252-144G50Mnkk | GCTWN | S2.R6402.001 | AS4252_U MACkk_3 | AMDV140 | UMA | N |
| AS4252-144G75Mnrr | GCTWN | S2.R7702.001 | AS4252_U MACrr_3 | AMDV140 | UMA | N |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|-------------------|------------|--------------|------------|----------|----------------|
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.002 | SO1GBIII10 | N | N320GB5.4KS_4K |
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.003 | SO1GBIII10 | N | N320GB5.4KS_4K |
| AS4252-141G32Mnkk | ACLA-Spain | LX.R6408.004 | SO1GBIII10 | N | N320GB5.4KS_4K |
| AS4252-141G32Mnkk | Chile | LX.R6408.005 | SO1GBIII10 | N | N320GB5.4KS_4K |
| AS4252-141G32Mnkk | Thailand | LX.R640C.001 | SO1GBIII10 | N | N320GB5.4KS |
| AS4252-142G25Mnkk | ACLA-Spain | LX.R640C.002 | SO2GBIII10 | N | N250GB5.4KS |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.001 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.006 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4252-142G32Mnkk | ACLA-Spain | LX.R6408.007 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4252-142G32Mnkk | Chile | LX.R6408.008 | SO2GBIII10 | N | N320GB5.4KS_4K |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|-------------------|---------|--------------|------------|------------|-------------|
| AS4252-144G50Mncc | GCTWN | S2.R7602.001 | SO2GBIII10 | SO2GBIII10 | N500GB5.4KS |
| AS4252-144G50Mnkk | GCTWN | S2.R6402.001 | SO2GBIII10 | SO2GBIII10 | N500GB5.4KS |
| AS4252-144G75Mnrr | GCTWN | S2.R7702.001 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |

Aspire 4552

| Model | RO | Country | Acer Part No | Description |
|--------------------|-----|-----------|---------------|--|
| AS4552-N351G50Mnkk | AAP | Thailand | LX.R62 0C.012 | AS4552-N351G50Mnkk LINPUSATH4 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-N351G50Mnkk | AAP | Thailand | LX.R62 0C.013 | AS4552-N351G50Mnkk LINPUSATH3 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-N351G50Mnkk | AAP | Thailand | LX.R62 0C.014 | AS4552-N351G50Mnkk LINPUSATH1 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552-N954G75Mnrr | WW | GCTWN | S2.R7A 02.002 | AS4552-N954G75Mnrr W7HP64ASWW1 MC UMACrr_3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P321G32Mncc | AAP | Malaysia | LX.R78 0C.003 | AS4552-P321G32Mncc LINPUSAMY1 UMACcc_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P321G32Mnkk | AAP | Malaysia | LX.R62 0C.016 | AS4552-P321G32Mnkk LINPUSAMY1 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P322G32Mncc | AAP | Malaysia | LX.R78 02.002 | AS4552-P322G32Mncc EM W7HP64EMASMY1 MC UMACcc_3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P322G32Mnkk | AAP | Malaysia | LX.R62 02.003 | AS4552-P322G32Mnkk EM W7HP64EMASMY1 MC UMACKk_3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P341G32Mncc | AAP | Indonesia | LX.R78 0C.001 | AS4552-P341G32Mncc LINPUSAID1 UMACcc_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ID22 |
| AS4552-P341G32Mncc | AAP | Malaysia | LX.R78 0C.002 | AS4552-P341G32Mncc LINPUSAMY1 UMACcc_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P341G32Mnkk | AAP | Indonesia | LX.R62 0C.007 | AS4552-P341G32Mnkk LINPUSAID1 UMACKk_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ID22 |
| AS4552-P341G32Mnkk | AAP | Malaysia | LX.R62 0C.008 | AS4552-P341G32Mnkk LINPUSAMY1 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P341G32Mnkk | AAP | Thailand | LX.R62 0C.004 | AS4552-P341G32Mnkk LINPUSATH4 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P341G32Mnkk | AAP | Thailand | LX.R62 0C.005 | AS4552-P341G32Mnkk LINPUSATH3 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P341G32Mnkk | AAP | Thailand | LX.R62 0C.006 | AS4552-P341G32Mnkk LINPUSATH1 UMACKk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552-P341G50Mnkk | AAP | Thailand | LX.R62 0C.009 | AS4552-P341G50Mnkk LINPUSATH4 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P341G50Mnkk | AAP | Thailand | LX.R62 0C.010 | AS4552-P341G50Mnkk LINPUSATH3 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552-P341G50Mnkk | AAP | Thailand | LX.R62 0C.011 | AS4552-P341G50Mnkk LINPUSATH1 UMACKk_3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |

| Model | RO | Country | Acer Part No | Description |
|--------------------|-----|------------|---------------|---|
| AS4552-P342G25Mnkk | PA | ACLA-Spain | LX.R62 0C.017 | AS4552-P342G25Mnkk LINPUSA EA1 UMAC kk_3 1*2G/250/6L2.2/2R/CB_bgn_1.3C_HG_EN62 |
| AS4552-P342G32Mncc | AAP | Malaysia | LX.R78 02.001 | AS4552-P342G32Mncc EM W7HP64EMAS MY1 MC UMAC cc_3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P342G32Mnkk | PA | ACLA-Spain | LX.R62 01.001 | AS4552-P342G32Mnkk EM W7HB64EMASEA1 MC UMAC kk_3 1*2G/320/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | PA | ACLA-Spain | LX.R62 01.002 | AS4552-P342G32Mnkk EM W7HB64EMASEA3 MC UMAC kk_3 1*2G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | PA | ACLA-Spain | LX.R62 01.003 | AS4552-P342G32Mnkk EM W7HB64EMASEA4 MC UMAC kk_3 1*2G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_EN31 |
| AS4552-P342G32Mnkk | PA | ACLA-Spain | LX.R62 08.001 | AS4552-P342G32Mnkk EM W7ST32EMASEA3 MC UMAC kk_3 1*2G/320/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | PA | ACLA-Spain | LX.R62 08.002 | AS4552-P342G32Mnkk EM W7ST32EMASEA1 MC UMAC kk_3 1*2G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | PA | Chile | LX.R62 01.004 | AS4552-P342G32Mnkk EM W7HB64EMASCL3 MC UMAC kk_3 1*2G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | PA | Chile | LX.R62 08.003 | AS4552-P342G32Mnkk EM W7ST32EMASCL3 MC UMAC kk_3 1*2G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P342G32Mnkk | AAP | Malaysia | LX.R62 02.002 | AS4552-P342G32Mnkk EM W7HP64EMAS MY1 MC UMAC kk_3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552-P342G32Mnkk | AAP | Thailand | LX.R62 02.001 | AS4552-P342G32Mnkk EM W7HP64EMATTH1 MC UMAC kk_3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH41 |
| AS4552-P343G32Mnkk | PA | ACLA-Spain | LX.R62 02.004 | AS4552-P343G32Mnkk EM W7HP64EMASEA1 MC UMAC kk_3 2G+1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P343G32Mnkk | PA | ACLA-Spain | LX.R62 02.006 | AS4552-P343G32Mnkk EM W7HP64EMASEA3 MC UMAC kk_3 2G+1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P343G32Mnkk | PA | ACLA-Spain | LX.R62 02.007 | AS4552-P343G32Mnkk EM W7HP64EMASEA1 MC UMAC kk_3 2G+1G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P343G32Mnkk | PA | ACLA-Spain | LX.R62 0C.015 | AS4552-P343G32Mnkk LINPUSA EA1 UMAC kk_3 2G+1G/320/6L2.2/2R/CB_bgn_1.3C_HG_EN62 |
| AS4552-P343G32Mnkk | PA | Chile | LX.R62 02.008 | AS4552-P343G32Mnkk EM W7HP64EMASCL3 MC UMAC kk_3 2G+1G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 |
| AS4552-P344G16Mnkk | WW | WW | S2.R62 02.001 | AS4552-P344G16Mnkk W7HP64ASWW1 MC UMAC kk_3 2*2G/160/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES62 |
| AS4552-P346G64Mncc | WW | GCTWN | S2.R78 0C.001 | AS4552-P346G64Mncc LINPUSA WW1 UMAC cc_3 2G+4G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ENX1 |

| Model | RO | Country | Acer Part No | Description | | |
|--------------------|-----|------------|---------------|--|--|--|
| AS4552-P541G32Mnrr | AAP | Indonesia | LX.R7A 0C.001 | AS4552-P541G32Mnrr LINPUSAID1 UMACrr_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ID22 | | |
| AS4552-P542G25Mnkk | WW | WW | S2.R62 02.002 | AS4552-P542G25Mnkk W7HP64ASWW1 MC UMACkk_3 2*1G/250/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES62 | | |
| AS4552-P542G64Mnkk | AAP | Thailand | LX.R62 0C.001 | AS4552-P542G64Mnkk LINPUSATH4 UMACkk_3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 | | |
| AS4552-P542G64Mnkk | AAP | Thailand | LX.R62 0C.002 | AS4552-P542G64Mnkk LINPUSATH3 UMACkk_3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 | | |
| AS4552-P542G64Mnkk | AAP | Thailand | LX.R62 0C.003 | AS4552-P542G64Mnkk LINPUSATH1 UMACkk_3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 | | |
| AS4552-P543G32Mnkk | PA | ACLA-Spain | LX.R62 02.009 | AS4552-P543G32Mnkk EM W7HP64EMASEA3 MC UMACkk_3 2G+1G/320/6L2.2/2R/CB_bgn_1.3C_HG_ES51 | | |
| AS4552-P543G32Mnkk | PA | ACLA-Spain | LX.R62 02.010 | AS4552-P543G32Mnkk EM W7HP64EMASEA1 MC UMACkk_3 2G+1G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 | | |
| AS4552-P543G32Mnkk | PA | Chile | LX.R62 02.011 | AS4552-P543G32Mnkk EM W7HP64EMASCL3 MC UMACkk_3 2G+1G/320_5.4k_4k/6L2.2/2R/CB_bgn_1.3C_HG_ES51 | | |
| AS4552-P544G50Mnkk | PA | USA | LX.R62 02.005 | AS4552-P544G50Mnkk W7HP64ASUS1 MC UMACkk_3 2*2G/500_L/6L2.2/2R/CB_bgn_1.3C_HG_FRB1 | | |
| AS4552-P548G75Mnrr | WW | GCTWN | S2.R7A 02.001 | AS4552-P548G75Mnrr W7HP64ASWW1 MC UMACrr_3 2*4G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 | | |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|--------------------|-----------|--------------|------------------|--------|----------|--------|
| AS4552-N351G50Mnkk | Thailand | LX.R620C.012 | AS4552_UMA_Ckk_3 | AAN350 | UMA | N |
| AS4552-N351G50Mnkk | Thailand | LX.R620C.013 | AS4552_UMA_Ckk_3 | AAN350 | UMA | N |
| AS4552-N351G50Mnkk | Thailand | LX.R620C.014 | AS4552_UMA_Ckk_3 | AAN350 | UMA | N |
| AS4552-N954G75Mnrr | GCTWN | S2.R7A02.002 | AS4552_UMA_Crr_3 | APN950 | UMA | N |
| AS4552-P321G32Mncc | Malaysia | LX.R780C.003 | AS4552_UMA_Ccc_3 | AAP320 | UMA | N |
| AS4552-P321G32Mnkk | Malaysia | LX.R620C.016 | AS4552_UMA_Ckk_3 | AAP320 | UMA | N |
| AS4552-P322G32Mncc | Malaysia | LX.R7802.002 | AS4552_UMA_Ccc_3 | AAP320 | UMA | N |
| AS4552-P322G32Mnkk | Malaysia | LX.R6202.003 | AS4552_UMA_Ckk_3 | AAP320 | UMA | N |
| AS4552-P341G32Mncc | Indonesia | LX.R780C.001 | AS4552_UMA_Ccc_3 | AAP340 | UMA | N |
| AS4552-P341G32Mncc | Malaysia | LX.R780C.002 | AS4552_UMA_Ccc_3 | AAP340 | UMA | N |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|--------------------|------------|--------------|------------------|--------|----------|--------|
| AS4552-P341G32Mnkk | Indonesia | LX.R620C.007 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G32Mnkk | Malaysia | LX.R620C.008 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.004 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.005 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.006 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.009 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.010 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.011 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G25Mnkk | ACLA-Spain | LX.R620C.017 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mncc | Malaysia | LX.R7802.001 | AS4552_UMA_Ccc_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.001 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.002 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.003 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6208.001 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6208.002 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | Chile | LX.R6201.004 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | Chile | LX.R6208.003 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | Malaysia | LX.R6202.002 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P342G32Mnkk | Thailand | LX.R6202.001 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.004 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.006 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.007 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R620C.015 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P343G32Mnkk | Chile | LX.R6202.008 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|--------------------|------------|--------------|------------------|--------|----------|--------|
| AS4552-P344G16Mnkk | WW | S2.R6202.001 | AS4552_UMA_Ckk_3 | AAP340 | UMA | N |
| AS4552-P346G64Mncc | GCTWN | S2.R780C.001 | AS4552_UMA_Ccc_3 | AAP340 | UMA | N |
| AS4552-P541G32Mnrr | Indonesia | LX.R7A0C.001 | AS4552_UMA_Crr_3 | ATP540 | UMA | N |
| AS4552-P542G25Mnkk | WW | S2.R6202.002 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.001 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.002 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.003 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P543G32Mnkk | ACLA-Spain | LX.R6202.009 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P543G32Mnkk | ACLA-Spain | LX.R6202.010 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P543G32Mnkk | Chile | LX.R6202.011 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P544G50Mnkk | USA | LX.R6202.005 | AS4552_UMA_Ckk_3 | ATP540 | UMA | N |
| AS4552-P548G75Mnrr | GCTWN | S2.R7A02.001 | AS4552_UMA_Crr_3 | ATP540 | UMA | N |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|--------------------|-----------|--------------|------------|------------|----------------|
| AS4552-N351G50Mnkk | Thailand | LX.R620C.012 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-N351G50Mnkk | Thailand | LX.R620C.013 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-N351G50Mnkk | Thailand | LX.R620C.014 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-N954G75Mnrr | GCTWN | S2.R7A02.002 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552-P321G32Mncc | Malaysia | LX.R780C.003 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P321G32Mnkk | Malaysia | LX.R620C.016 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P322G32Mncc | Malaysia | LX.R7802.002 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P322G32Mnkk | Malaysia | LX.R6202.003 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P341G32Mncc | Indonesia | LX.R780C.001 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G32Mncc | Malaysia | LX.R780C.002 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G32Mnkk | Indonesia | LX.R620C.007 | SO1GBIII10 | N | N320GB5.4KS |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|--------------------|------------|--------------|------------|------------|----------------|
| AS4552-P341G32Mnkk | Malaysia | LX.R620C.008 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.004 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.005 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G32Mnkk | Thailand | LX.R620C.006 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.009 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.010 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-P341G50Mnkk | Thailand | LX.R620C.011 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552-P342G25Mnkk | ACLA-Spain | LX.R620C.017 | SO2GBIII10 | N | N250GB5.4KS |
| AS4552-P342G32Mncc | Malaysia | LX.R7802.001 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.001 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.002 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6201.003 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6208.001 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | ACLA-Spain | LX.R6208.002 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | Chile | LX.R6201.004 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | Chile | LX.R6208.003 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | Malaysia | LX.R6202.002 | SO2GBIII10 | N | N320GB5.4KS_4K |
| AS4552-P342G32Mnkk | Thailand | LX.R6202.001 | SO2GBIII10 | N | N320GB5.4KS |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.004 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.006 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R6202.007 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P343G32Mnkk | ACLA-Spain | LX.R620C.015 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS |
| AS4552-P343G32Mnkk | Chile | LX.R6202.008 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P344G16Mnkk | WW | S2.R6202.001 | SO2GBIII10 | SO2GBIII10 | N160GB5.4KS |
| AS4552-P346G64Mncc | GCTWN | S2.R780C.001 | SO2GBIII10 | SO4GBIII10 | N640GB5.4KS |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|--------------------|------------|--------------|------------|------------|----------------|
| AS4552-P541G32Mnrr | Indonesia | LX.R7A0C.001 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552-P542G25Mnkk | WW | S2.R6202.002 | SO1GBIII10 | SO1GBIII10 | N250GB5.4KS |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.001 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.002 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552-P542G64Mnkk | Thailand | LX.R620C.003 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552-P543G32Mnkk | ACLA-Spain | LX.R6202.009 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P543G32Mnkk | ACLA-Spain | LX.R6202.010 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P543G32Mnkk | Chile | LX.R6202.011 | SO2GBIII10 | SO1GBIII10 | N320GB5.4KS_4K |
| AS4552-P544G50Mnkk | USA | LX.R6202.005 | SO2GBIII10 | SO2GBIII10 | N500GB5.4KS |
| AS4552-P548G75Mnrr | GCTWN | S2.R7A02.001 | SO4GBIII10 | SO4GBIII10 | N750GB5.4KS |

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| Model | RO | Country | Acer Part No | Description |
|---------------------|-----|----------|--------------|---|
| AS4552G-N351G50Mnkk | AAP | Thailand | LX.R630C.012 | AS4552G-N351G50Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N351G50Mnkk | AAP | Thailand | LX.R630C.013 | AS4552G-N351G50Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N351G50Mnkk | AAP | Thailand | LX.R630C.014 | AS4552G-N351G50Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N852G64Mncc | AAP | Thailand | LX.R7B0C.004 | AS4552G-N852G64Mncc LINPUSATH4 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N852G64Mncc | AAP | Thailand | LX.R7B0C.005 | AS4552G-N852G64Mncc LINPUSATH3 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N852G64Mncc | AAP | Thailand | LX.R7B0C.006 | AS4552G-N852G64Mncc LINPUSATH1 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N852G64Mnkk | AAP | Thailand | LX.R630C.005 | AS4552G-N852G64Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N852G64Mnkk | AAP | Thailand | LX.R630C.006 | AS4552G-N852G64Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |

| Model | RO | Country | Acer Part No | Description |
|---------------------|-----|-------------|---------------|--|
| AS4552G-N852G64Mnkk | AAP | Thailand | LX.R63 0C.007 | AS4552G-N852G64Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N932G32Mnkk | AAP | Philippines | LX.R63 0C.011 | AS4552G-N932G32Mnkk LINPUSAPH1 PARK_XT512Ckk_3V3 1*2G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N952G64Mncc | AAP | Thailand | LX.R7B 0C.001 | AS4552G-N952G64Mncc LINPUSATH4 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N952G64Mncc | AAP | Thailand | LX.R7B 0C.002 | AS4552G-N952G64Mncc LINPUSATH3 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N952G64Mncc | AAP | Thailand | LX.R7B 0C.003 | AS4552G-N952G64Mncc LINPUSATH1 PARK_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N952G64Mnkk | AAP | Thailand | LX.R63 0C.002 | AS4552G-N952G64Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N952G64Mnkk | AAP | Thailand | LX.R63 0C.003 | AS4552G-N952G64Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N952G64Mnkk | AAP | Thailand | LX.R63 0C.004 | AS4552G-N952G64Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N952G64Mnrr | AAP | Thailand | LX.R7C 0C.001 | AS4552G-N952G64Mnrr LINPUSATH1 PARK_XT512Crr_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-N952G64Mnrr | AAP | Thailand | LX.R7C 0C.002 | AS4552G-N952G64Mnrr LINPUSATH4 PARK_XT512Crr_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N952G64Mnrr | AAP | Thailand | LX.R7C 0C.003 | AS4552G-N952G64Mnrr LINPUSATH3 PARK_XT512Crr_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-N954G50Mncc | WW | GCTWN | S2.R7B 02.001 | AS4552G-N954G50Mncc W7HP64ASWW1 MC PARK_XT512Ccc_3V3 2*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N954G75Mncc | AAP | Thailand | LX.R7B 02.001 | AS4552G-N954G75Mncc EM W7HP64EMASTH4 MC PARK_XT512Ccc_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N954G75Mncc | AAP | Thailand | LX.R7B 02.002 | AS4552G-N954G75Mncc EM W7HP64EMASTH3 MC PARK_XT512Ccc_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N954G75Mncc | AAP | Thailand | LX.R7B 02.003 | AS4552G-N954G75Mncc EM W7HP64EMASTH1 MC PARK_XT512Ccc_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH71 |
| AS4552G-N954G75Mnkk | AAP | Thailand | LX.R63 02.003 | AS4552G-N954G75Mnkk EM W7HP64EMASTH1 MC PARK_XT512Ckk_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH71 |
| AS4552G-N954G75Mnrr | WW | GCTWN | S2.R7C 02.001 | AS4552G-N954G75Mnrr W7HP64ASWW1 MC PARK_XT512Crr_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |

| Model | RO | Country | Acer Part No | Description |
|---------------------|-------|----------|---------------|--|
| AS4552G-N954G75Mnrr | AAP | Thailand | LX.R7C 02.001 | AS4552G-N954G75Mnrr EM W7HP64EMASTH4 MC PARK_XT512Crr_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N954G75Mnrr | AAP | Thailand | LX.R7C 02.002 | AS4552G-N954G75Mnrr EM W7HP64EMASTH3 MC PARK_XT512Crr_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-N954G75Mnrr | AAP | Thailand | LX.R7C 02.003 | AS4552G-N954G75Mnrr EM W7HP64EMASTH1 MC PARK_XT512Crr_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH71 |
| AS4552G-P341G32Mnkk | AAP | Thailand | LX.R63 0C.018 | AS4552G-P341G32Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-P341G32Mnkk | AAP | Thailand | LX.R63 0C.019 | AS4552G-P341G32Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-P341G32Mnkk | AAP | Thailand | LX.R63 0C.020 | AS4552G-P341G32Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-P341G50Mnkk | AAP | Thailand | LX.R63 0C.015 | AS4552G-P341G50Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-P341G50Mnkk | AAP | Thailand | LX.R63 0C.016 | AS4552G-P341G50Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-P341G50Mnkk | AAP | Thailand | LX.R63 0C.017 | AS4552G-P341G50Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*1G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 |
| AS4552G-P342G32Mncc | CHINA | China | LX.R7B 0C.007 | AS4552G-P342G32Mncc LINPUSACN1 PARK_XT512Ccc_3V3 1*2G/320/6L2.2/2R/CB_bgn_1.3C_HG_EN91 |
| AS4552G-P342G32Mnkk | CHINA | China | LX.R63 0C.001 | AS4552G-P342G32Mnkk LINPUSACN1 PARK_XT512Ckk_3V3 1*2G/320/6L2.2/2R/CB_bgn_1.3C_HG_EN91 |
| AS4552G-P342G32Mnrr | CHINA | China | LX.R7C 0C.004 | AS4552G-P342G32Mnrr LINPUSACN1 PARK_XT512Crr_3V3 1*2G/320/6L2.2/2R/CB_bgn_1.3C_HG_EN91 |
| AS4552G-P344G50Mnkk | WW | WW | S2.R63 0C.001 | AS4552G-P344G50Mnkk LINPUSAww1 PARK_XTCkk_3V3 2*2G/500_L/6L2.2/2R/CB_bgn_1.3C_HG_EN11 |
| AS4552G-P344G75Mnkk | WW | GCTWN | S2.R63 02.002 | AS4552G-P344G75Mnkk W7HP64ASWW1 MC PARK_XT512Ckk_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |
| AS4552G-P344G75Mnkk | WW | WW | S2.R63 02.001 | AS4552G-P344G75Mnkk W7HP64ASWW1 MC PARK_XT512Ckk_3V3 2*2G/750/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES62 |
| AS4552G-P542G64Mnkk | AAP | Thailand | LX.R63 02.001 | AS4552G-P542G64Mnkk EM W7HP64EMATTH1 MC PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH41 |
| AS4552G-P542G64Mnkk | AAP | Thailand | LX.R63 0C.008 | AS4552G-P542G64Mnkk LINPUSATH4 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_ES61 |

| Model | RO | Country | Acer Part No | Description | | |
|---------------------|-----|----------|---------------|--|--|--|
| AS4552G-P542G64Mnkk | AAP | Thailand | LX.R63 0C.009 | AS4552G-P542G64Mnkk LINPUSATH3 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_EN11 | | |
| AS4552G-P542G64Mnkk | AAP | Thailand | LX.R63 0C.010 | AS4552G-P542G64Mnkk LINPUSATH1 PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH51 | | |
| AS4552G-P842G64Mnkk | AAP | Thailand | LX.R63 02.002 | AS4552G-P842G64Mnkk EM W7HP64EMATTH1 MC PARK_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_HG_TH41 | | |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|---------------------|-------------|---------------|---------------------------|--------|----------|---------------------|
| AS4552G-N351G50Mnkk | Thailand | LX.R63 0C.012 | AS4552G_PARK_XT512Ckk_3V3 | AAN350 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N351G50Mnkk | Thailand | LX.R63 0C.013 | AS4552G_PARK_XT512Ckk_3V3 | AAN350 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N351G50Mnkk | Thailand | LX.R63 0C.014 | AS4552G_PARK_XT512Ckk_3V3 | AAN350 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mncc | Thailand | LX.R7B 0C.004 | AS4552G_PARK_XT512Ccc_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mncc | Thailand | LX.R7B 0C.005 | AS4552G_PARK_XT512Ccc_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mncc | Thailand | LX.R7B 0C.006 | AS4552G_PARK_XT512Ccc_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mnkk | Thailand | LX.R63 0C.005 | AS4552G_PARK_XT512Ckk_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mnkk | Thailand | LX.R63 0C.006 | AS4552G_PARK_XT512Ckk_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N852G64Mnkk | Thailand | LX.R63 0C.007 | AS4552G_PARK_XT512Ckk_3V3 | APN850 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N932G32Mnkk | Philippines | LX.R63 0C.011 | AS4552G_PARK_XT512Ckk_3V3 | APN930 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mncc | Thailand | LX.R7B 0C.001 | AS4552G_PARK_XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mncc | Thailand | LX.R7B 0C.002 | AS4552G_PARK_XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mncc | Thailand | LX.R7B 0C.003 | AS4552G_PARK_XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnkk | Thailand | LX.R63 0C.002 | AS4552G_PARK_XT512Ckk_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnkk | Thailand | LX.R63 0C.003 | AS4552G_PARK_XT512Ckk_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnkk | Thailand | LX.R63 0C.004 | AS4552G_PARK_XT512Ckk_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C 0C.001 | AS4552G_PARK_XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C 0C.002 | AS4552G_PARK_XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C 0C.003 | AS4552G_PARK_XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|---------------------|----------|---------------|----------------------------|--------|----------|---------------------|
| AS4552G-N954G50Mncc | GCTWN | S2.R7B 02.001 | AS4552G_PARK _XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mncc | Thailand | LX.R7B 02.001 | AS4552G_PARK _XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mncc | Thailand | LX.R7B 02.002 | AS4552G_PARK _XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mncc | Thailand | LX.R7B 02.003 | AS4552G_PARK _XT512Ccc_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mnkk | Thailand | LX.R63 02.003 | AS4552G_PARK _XT512Ckk_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mnrr | GCTWN | S2.R7C 02.001 | AS4552G_PARK _XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C 02.001 | AS4552G_PARK _XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C 02.002 | AS4552G_PARK _XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C 02.003 | AS4552G_PARK _XT512Crr_3V3 | APN950 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G32Mnkk | Thailand | LX.R63 0C.018 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G32Mnkk | Thailand | LX.R63 0C.019 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G32Mnkk | Thailand | LX.R63 0C.020 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G50Mnkk | Thailand | LX.R63 0C.015 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G50Mnkk | Thailand | LX.R63 0C.016 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P341G50Mnkk | Thailand | LX.R63 0C.017 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P342G32Mncc | China | LX.R7B 0C.007 | AS4552G_PARK _XT512Ccc_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P342G32Mnkk | China | LX.R63 0C.001 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P342G32Mnrr | China | LX.R7C 0C.004 | AS4552G_PARK _XT512Crr_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P344G50Mnkk | WW | S2.R63 0C.001 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P344G75Mnkk | GCTWN | S2.R63 02.002 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P344G75Mnkk | WW | S2.R63 02.001 | AS4552G_PARK _XT512Ckk_3V3 | AAP340 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P542G64Mnkk | Thailand | LX.R63 02.001 | AS4552G_PARK _XT512Ckk_3V3 | ATP540 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P542G64Mnkk | Thailand | LX.R63 0C.008 | AS4552G_PARK _XT512Ckk_3V3 | ATP540 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P542G64Mnkk | Thailand | LX.R63 0C.009 | AS4552G_PARK _XT512Ckk_3V3 | ATP540 | PARK_XT | 512M-DDR3 (64*16*4) |

| Model | Country | Acer Part No | BOM Name | CPU | VGA Chip | VRAM 1 |
|---------------------|----------|--------------|---------------------------|--------|----------|---------------------|
| AS4552G-P542G64Mnkk | Thailand | LX.R630C.010 | AS4552G_PARK_XT512Ckk_3V3 | ATP540 | PARK_XT | 512M-DDR3 (64*16*4) |
| AS4552G-P842G64Mnkk | Thailand | LX.R6302.002 | AS4552G_PARK_XT512Ckk_3V3 | APP840 | PARK_XT | 512M-DDR3 (64*16*4) |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|---------------------|-------------|--------------|------------|------------|-------------|
| AS4552G-N351G50Mnkk | Thailand | LX.R630C.012 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-N351G50Mnkk | Thailand | LX.R630C.013 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-N351G50Mnkk | Thailand | LX.R630C.014 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-N852G64Mncc | Thailand | LX.R7B0C.004 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N852G64Mncc | Thailand | LX.R7B0C.005 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N852G64Mncc | Thailand | LX.R7B0C.006 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N852G64Mncc | Thailand | LX.R630C.005 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N852G64Mnkk | Thailand | LX.R630C.006 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N852G64Mnkk | Thailand | LX.R630C.007 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N932G32Mnkk | Philippines | LX.R630C.011 | SO2GBIII10 | N | N320GB5.4KS |
| AS4552G-N952G64Mncc | Thailand | LX.R7B0C.001 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mncc | Thailand | LX.R7B0C.002 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mncc | Thailand | LX.R7B0C.003 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnkk | Thailand | LX.R630C.002 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnkk | Thailand | LX.R630C.003 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnkk | Thailand | LX.R630C.004 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C0C.001 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C0C.002 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N952G64Mnrr | Thailand | LX.R7C0C.003 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-N954G50Mncc | GCTWN | S2.R7B02.001 | SO2GBIII10 | SO2GBIII10 | N500GB5.4KS |
| AS4552G-N954G75Mncc | Thailand | LX.R7B02.001 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |

| Model | Country | Acer Part No | Memory 1 | Memory 2 | HDD 1(GB) |
|---------------------|----------|--------------|------------|------------|-------------|
| AS4552G-N954G75Mncc | Thailand | LX.R7B02.002 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mncc | Thailand | LX.R7B02.003 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mnkk | Thailand | LX.R6302.003 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mnrr | GCTWN | S2.R7C02.001 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C02.001 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C02.002 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-N954G75Mnrr | Thailand | LX.R7C02.003 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-P341G32Mnkk | Thailand | LX.R630C.018 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552G-P341G32Mnkk | Thailand | LX.R630C.019 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552G-P341G32Mnkk | Thailand | LX.R630C.020 | SO1GBIII10 | N | N320GB5.4KS |
| AS4552G-P341G50Mnkk | Thailand | LX.R630C.015 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-P341G50Mnkk | Thailand | LX.R630C.016 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-P341G50Mnkk | Thailand | LX.R630C.017 | SO1GBIII10 | N | N500GB5.4KS |
| AS4552G-P342G32Mncc | China | LX.R7B0C.007 | SO2GBIII10 | N | N320GB5.4KS |
| AS4552G-P342G32Mnkk | China | LX.R630C.001 | SO2GBIII10 | N | N320GB5.4KS |
| AS4552G-P342G32Mnrr | China | LX.R7C0C.004 | SO2GBIII10 | N | N320GB5.4KS |
| AS4552G-P344G50Mnkk | WW | S2.R630C.001 | SO2GBIII10 | SO2GBIII10 | N500GB5.4KS |
| AS4552G-P344G75Mnkk | GCTWN | S2.R6302.002 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-P344G75Mnkk | WW | S2.R6302.001 | SO2GBIII10 | SO2GBIII10 | N750GB5.4KS |
| AS4552G-P542G64Mnkk | Thailand | LX.R6302.001 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-P542G64Mnkk | Thailand | LX.R630C.008 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-P542G64Mnkk | Thailand | LX.R630C.009 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-P542G64Mnkk | Thailand | LX.R630C.010 | SO2GBIII10 | N | N640GB5.4KS |
| AS4552G-P842G64Mnkk | Thailand | LX.R6302.002 | SO2GBIII10 | N | N640GB5.4KS |

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 with backwards compatibility to Windows® XP.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the 4252/4552/4552G Compatibility Test Report released by the Acer Mobile System Testing Department.

| Vendor | Type | Description | P/N |
|--------------------|--------------------|---|--------------|
| Adapter | | | |
| Chicony Power | 65W | Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow CPA09-A065N1, LV5, low profile LED LF | AP.0650A.017 |
| DELTA | 90W | Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DBH, LV5 LED LF | AP.09001.031 |
| HIPRO | 65W | Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF | AP.0650A.012 |
| Audio Codec | | | |
| Realtek | ALC272X | Realtek Audio Codec ALC272X | LZ.21000.045 |
| Battery | | | |
| SANYO | 6CELL2.2 | Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AS10D31 | BT.00603.111 |
| SONY | 6CELL2.2 | Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41 | BT.00604.049 |
| Bluetooth | | | |
| Foxconn | BT 2.1 | Foxconn Bluetooth BRM 2070 (T77H114.01) | BH.21100.007 |
| Foxconn | BT 3.0 | Foxconn Bluetooth BRM 2046 BT3.0 (T60H928.33) f/w:861 | BH.21100.008 |
| Foxconn | BT 3.0 | Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0 | BH.21100.010 |
| Camera | | | |
| Chicony | 1.3M | Chicony 1.3M CH9665SN (CNF9157) | AM.21400.067 |
| Suyin | 1.3M | Suyin 1.3M SY9665SN | AM.21400.068 |
| Card Reader | | | |
| | 2-in-1 card reader | 2-in-1 card reader | CR.21500.030 |
| CPU | | | |
| AMD | AAP320 | CPU AMD AthlonII P320 2.1G 1M 25W Dual-Core | KC.AP002.320 |
| AMD | APN830 | CPU AMD PhenomII N830 2.1G 35W 1.5M L2, Triple-Core | KC.PN002.830 |
| AMD | APN930 | CPU AMD PhenomII N930 2.0G 2M 35W Quad-Core | KC.PN002.930 |
| AMDISS | AAN350 | CPU AMD AthlonII N350 PGA 2.4G 1M 35W | KC.AN002.350 |
| AMDISS | AAP340 | CPU AMD AthlonII P340 PGA 2.2G 1M 25W | KC.AP002.340 |
| AMDISS | AMDV140 | CPU AMD - V140 PGA 2.3G 512K 25W | KC.V0002.140 |
| AMDISS | APN850 | CPU AMD PhenomII N850 PGA 2.2G 1.5M 35W | KC.PN002.850 |

| Vendor | Type | Description | P/N |
|-----------------|----------------|---|--------------|
| AMDISS | APN950 | CPU AMD PhenomII N950 PGA 2.1G 2M 35W | KC.PN002.950 |
| AMDISS | APP840 | CPU AMD PhenomII P840 PGA 1.9G 1.5M 25W | KC.PP002.840 |
| AMDISS | APP940 | CPU AMD PhenomII P940 PGA 1.7G 2M 25W | KC.PP002.940 |
| AMDISS | ATP540 | CPU AMD TurionII P540 PGA 2.4G 2M 25W | KC.TP002.540 |
| HDD | | | |
| HGST | N320GB5.4KS | HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/ W:C60F Disk imbalance criteria = 0.014g-cm | KH.32007.008 |
| SEAGATE | N250GB5.4KS | HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1 | KH.25001.019 |
| SEAGATE | N320GB5.4KS | HDD SEAGATE 2.5" 5400rpm 320GB ST9320310AS,9RN132-188, Cameron 320G/P SATA 8MB LF F/W:0001SDM1 | KH.32001.019 |
| SEAGATE | N500GB5.4KS | HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1 | KH.50001.017 |
| TOSHIBA | N250GB5.4KS | HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J | KH.25004.005 |
| TOSHIBA | N500GB5.4KS | HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J | KH.50004.002 |
| TOSHIBA | N640GB5.4KS | HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J | KH.64004.001 |
| WD | N160GB5.4KS | HDD WD 2.5" 5400rpm 160GB WD1600BEVT- 22A23T0 , WD, ML320S SATA 8MB LF F/ W:01.01A01 | KH.16008.027 |
| WD | N250GB5.4KS | HDD WD 2.5" 5400rpm 250GB WD2500BEVT- 22A23T0, WD, ML320S SATA 8MB LF F/ W:01.01A01. | KH.25008.025 |
| WD | N320GB5.4KS_4K | HDD WD 2.5" 5400rpm 320GB WD3200BPVT- 22ZEST0, ML320S, 4K drive SATA 8MB LF F/ W: 01.01A01 | KH.32008.022 |
| WD | N500GB5.4KS | HDD WD 2.5" 5400rpm 500GB WD5000BEVT- 22A0RT0, ML320M,WD SATA 8MB LF F/ W:01.01A01 | KH.50008.017 |
| WD | N640GB5.4KS | HDD WD 2.5" 5400rpm 640GB WD6400BPVT- 22HXZT1, ML375M SATA 8MB LF F/W: 01.01A01 | KH.64008.005 |
| WD | N750GB5.4KS | HDD WD 2.5" 5400rpm 750GB WD7500BPVT- 22HXZT1, ML375M, 4K drive SATA 8MB LF F/ W:01.01A01 | KH.75008.009 |
| Keyboard | | | |
| ACER | AC4T_A10B | Keyboard ACER AC4T_A10B AC4T Internal 14 Standard Black Y2010 Acer Legend Texture | KB.I140A.202 |
| LAN | | | |
| Broadcom | BCM57780 | Broadcom BCM57780 | NI.22400.047 |

| Vendor | Type | Description | | P/N |
|---------------------|---------------------|---|--------------|-----|
| LCD | | | | |
| AUO | NLED14WXGAG | LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving) | LK.14005.010 | |
| CMI | NLED14WXGAG | LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1 | LK.1400D.008 | |
| MEM | | | | |
| NONE | SO1GBIII10 | Memory NONE REG-ECC DDRIII 1066 1GB phantom p/n LF | KN.1GB00.003 | |
| NONE | SO2GBIII10 | Memory NONE SO-DIMM DDRIII 1066 2GB dummy 1066 LF | KN.2GB00.001 | |
| NB Chipset | | | | |
| AMD | AMDRS880M | AMD RS880M w/ HDCP EEPROM | KI.22600.050 | |
| ODD | | | | |
| PLDS | NSM8XS | ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A5SH LF+HF W/O bezel SATA With TI + Rohm Solution (HF + Windows 7) | KU.0080F.014 | |
| SONY | NSM8XS | ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7) | KU.0080E.027 | |
| TOSHIBA | NSM8XS | ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633F LF W/O bezel SATA (HF + Windows 7) | KU.00801.040 | |
| SB Chipset | | | | |
| AMD | AMDSB820M | AMD SB820M A12 | KI.22800.016 | |
| Software | | | | |
| | McAfee | Antivirus application McAfee | SR.23900.001 | |
| VGA Chip | | | | |
| AMD | PARK_XT | VGA Chip AMD PARK_XT 100-CK3627 40nm 29mm*29mm M2 package | KI.23200.162 | |
| None | UMA | UMA (AMD) | KI.23200.154 | |
| VRAM | | | | |
| | 512M-DDR3 (64*16*4) | 512M-DDR3 64*16*4 | KI.23300.019 | |
| WiFi Antenna | | | | |
| WNC | PIFA | PIFA | LZ.23500.006 | |
| Wireless LAN | | | | |
| Foxconn | 3rd WiFi 2x2 BGN | Foxconn Wireless LAN Broadcom 43225 2x2 BGN (HM) T77H103.00 | NI.23600.066 | |

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

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